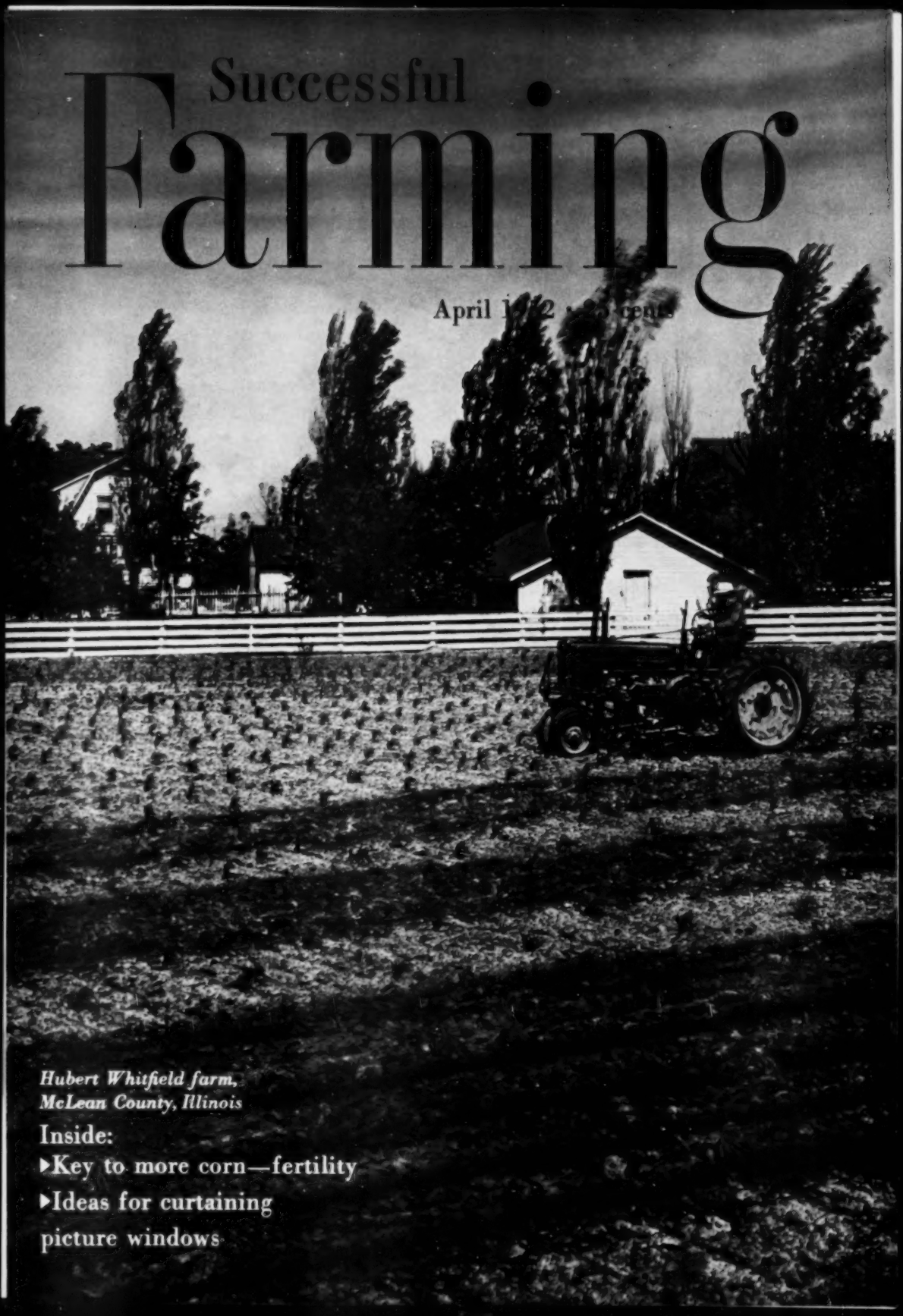
Successful Farming

April 1972 • 25 cents



Hubert Whitfield farm, McLean County, Illinois

Inside:

- Key to more corn—fertility
- Ideas for curtaining picture windows

AMERICAN-Standard

BATHROOMS

New! A smart combination of lavatory plus dressing table plus rooms cabinet! It's called the Dresslyn. Matching it are the Master Pembroke Bath and Master One-Piece Water Closet. Many other styles and colors to choose from.

Make your old bathroom look like this!

Imagine this bathroom in your home! You will love its sparkling beauty. And a high style bathroom like this keeps its new-as-tomorrow look for years to come. Best of all, the room-transforming American-Standard fixtures can be yours on the most *liberal of payment terms.* To learn how little it costs . . . how easy it is to re-do your old bathroom or to add an extra bathroom or powder room, see your plumbing retailer. He's listed in the yellow pages of your phone book under "Plumbing Fixtures" or "Plumbers' Supplies." He will give you an estimate in advance.

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to all contradictory claims

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Year after year far more farmers prefer Goodyear's Super-Sure-Grip to any other make. There is no close second!

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STRAIGHT LUGS! – Goodyear lugs are ruler-straight and come closer together at the shoulders — providing the time-proved, wedge-like bite that holds the soil in place and gives this tire more traction – gives your tractor more pulling power.

O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient — *when combined with straight lugs!*

EVEN WEAR! – Goodyear *straight* lugs work against the soil evenly, pull evenly, wear more evenly – to lengthen tire life and make your tire dollars go farther.

FIRST in Traction! FIRST in Long Wear! FIRST in Popularity!

GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

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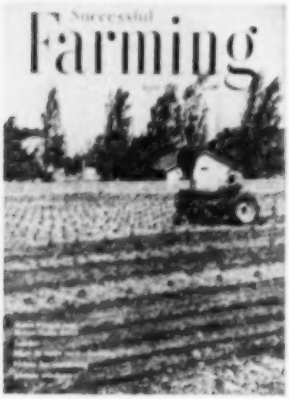
This month



About the cover: The conditions necessary for photographing this month's cover were ideal from both the farmer's and the photographer's standpoints. Hubert Whitfield, Le Roy, Illinois, knows the best time to cultivate corn is when the sun gets a chance to make short work of killing plowed-up weeds. And, of course, a sunny day is what photographers always like.

Mr. and Mrs. Whitfield do a good job of farming their 224-acre farm, which they bought two years ago. The corn shown on the cover will go toward feeding 60 to 75 head of cattle, 400 head of hogs, and 25 ewes. To produce enough corn for that much livestock year after year requires a sound soil program. A 3-year rotation of corn, oats, and legumes is used.

Although farming comes first, Mr. and Mrs. Whitfield take an active interest in their community, too. Mr. Whitfield is a member of the Le Roy Kiwanis Club and a number of farm organizations. Mrs. Whitfield is a member of three local clubs. The Whitfields are members of the Wesley Methodist Church of Bloomington, Illinois.—*Dick Hanson.*

Remember Doane open house May 19

Come see for yourself D. Howard Doane's system of raising beef on grass, as featured in the March *Successful Farming*. See how he wintered cattle on only 756 pounds of hay apiece—and how they bounced back after a winter weight loss of nearly 100 pounds to gain about 340 pounds on pasture alone. And sold only 1 to 3 cents under cattle with 10 bushels of corn in them.

Plan to be there Monday, May 19, at 12:30. The farm is 27 miles east of Columbia, Missouri, on U.S. 40. You'll see cattle on pasture in a test identical to the one described in the article. If you plan to attend, send a card to D. Howard Doane, Grassland Farm, McCredie, Missouri, giving number in party.

Successful Farming

The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

April, 1952 Vol. 50, No. 4

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WOULD YOUR PROPERTY GO UNDER THE HAMMER TO PAY ESTATE TAXES?

IT HAPPENS time and time again. A farmer spends his whole life acquiring land, buildings, livestock and equipment worth a small fortune—and takes pride in the thought that someday he'll leave it all to his family.

Then he dies—and suddenly his "fortune" dwindles and his wife and children receive only a part of what he intended.

That is because the cost of settling an estate can take a big "bite" out of it. Estate and inheritance taxes and probate and administration costs often run as high as 20 or 30 per cent of the estate's net value. *And they must be paid in cash soon after the estate owner's death.*

Unless the heirs have the cash on hand, they may be forced to sell a sizable portion of the property. And holdings that are sold under such circumstances rarely bring what they are really worth.

The ideal way to guard against such loss is to have enough life insurance to meet all taxes, costs and other liabilities involved in the settlement of your estate.

That way, you'll know your family is sure to have the necessary cash when the time comes. You'll know that your heirs will receive *all* the property you intend to leave them—without trouble, without worry, without needless delay.

If you have built up a farm that under today's prices represents a considerable amount of money, it would be well for you to find out as soon as possible how life insurance can protect your estate.

Your New York Life agent will be glad to give you all the facts with no obligation on your part whatever—so get in touch with him today. If you don't know the name of the New York Life agent serving your county, just write to the Home Office at the address below.

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Farm Outlook

Latest information on conditions, production, markets, and income prospects

Business good

Business of selling farm and factory products of all kinds is good, by pre-Korean standards. But it's not up to consumer buying power. Consumers are loaded with cash, but are reported to be saving large chunks, *refusing to bid up prices in spite of government warnings of developing shortages.*

Production of consumer goods has declined, but not below the smaller quantities being bought by consumers. Processor buying for future needs also has slowed. Meanwhile, there still is plenty of everything you need for the farm and the farm home.

Sixth round

Another round of wage increases—the sixth—is in the works. As these rounds continue (and there is no indication they will stop) *you can't expect lower prices of things you buy.* Not even if the cost of the raw materials declines.

Most of the price you pay for things is for wages, processing, and distribution. The same goes for the retail price of food.

Squeeze play

Prices paid by you hit new all-time highs this past winter, while prices you received went down. Prices this spring (during flush of milk, eggs, and other farm products) likely will follow the same pattern. Cattle and hogs aren't likely to improve much till fall.

B.A.E. says that gradually rising prices for goods bought by farmers, higher interest charges, higher taxes, and rising farm-wage rates are building up farm costs. All are higher this year than last.

Hogs

Low prices for hogs and high prices for corn during the past fall and winter discouraged many small producers. Spring farrowings are less than they were a year ago.

Smaller supplies of pork and bigger consumer buying power are in prospect for next fall. This combination should provide a much better market than that of 1951.

Beef cattle

Prices for Prime and Choice cattle usually are low in the spring. This year, the seasonal weakness may be increased by heavy marketings of cattle that have been fed on soft corn. The summer seems likely to bring near-normal price increases. The fall market should be fairly good. The supply of beef surely will be larger than in 1951, but this will be offset by smaller supplies of pork and especially by greater consumer buying power.

Prices for lower grades may show little or no seasonal rise this spring. The summer and fall market may bring moderate fluctuations with no special trend.

Over the next few years, cattle values will be reduced, more in line with prices of hogs and dairy products. This prospect calls for the adoption of lower-cost production programs. Profits from cattle will depend upon more efficient use of grass and legumes.

Sheep and lambs

Prices for lambs this past winter were considerably lower than they were 12 months earlier. Big reason for this difference was the absence of war speculation in wool this year.

Lamb is scarce and is selling well in retail markets. There is no prospect of much increase in supplies during the next few years.

Breeding flocks make good profits out of roughage on many farms. They require less capital and give quicker returns than beef cows. They also produce two products for sale instead of one.

Corn supply

Prospect for bigger corn crop and smaller pig crop has taken some of the zip out of feed grain futures.

Corn supply is now down to 1.5 billion bushels—nearly 400 million less than at this time last year—with 6 months to go before new crop comes in. October carryover will be only about 400 million.

Exports of corn have been cut below earlier estimates, and government bin stocks are being sold only on basis of most urgent need here at home.

Feed wheat

Don't overlook possibility of a government feed-wheat program in event this year's feed crops are small. Wheat promises to be a near-record crop, and the price of this combination food and feed grain will be the closest in years to the price of good corn.

You can bet that government will do everything possible to keep livestock production high; it will sell wheat for feed at first sign of distress selling of breeding stock. Position will be that if government can subsidize export wheat for food at 75 cents or more a bushel, it can do no less to maintain livestock production here at home.

Egg trouble

C.C.C. may be buying shell eggs for price support this spring. The eggs won't go to dryers but to schools in the school-lunch program.

Trouble started in midwinter when egg-feed price ratio dropped to 9.5 on national average, 8.5 in Indiana, 7.9 in Kansas and North Dakota, and 7.8 in Nebraska. Long-time, 20-year national average is 12.4.

Government is counting on bigger civilian, military, storage, and hatchery demand to help ease pressure of increased production on price; but will buy—if necessary—at levels calculated to prevent excessive reduction in laying flocks.

The poultry picture is not likely to improve much in the next 60 to 90 days. Many farmers who are "on the fence" will be discouraged and quit. This will favor those who continue in the business. Poultrymen who are good managers will make some recovery in the last half of '52.

Milk down

B.A.E. says per capita supplies of dairy products this year will be the smallest in three decades. Production simply hasn't kept pace with the increase in population. Prices received by farmers for fluid milk and butterfat are averaging about 10 percent above a year ago. Feed costs are higher, too, but dairy farmers have still made a little gain.

Milk production lost about 1 percent in 1951, in spite of increasing population. Butter production was off about 12 percent and cheese production was about 4 percent less. This again suggests a turning point in the nation's dairy picture.

Planning now for 1953-54 seems wise. Saving good heifers to build up herds appears justified this year.

Soybeans hit

Many farmers likely will switch from soybeans to corn this year. Trouble is there is simply too much vegetable oil for the market to digest, and another big cottonseed crop is scheduled for this year.

Were it not for the high record sales of oilseed cake and meal this year, your soybean prices would be still lower. END

The Revolutionary New Aero Willys

The Aero Willys Is Introduced in Two Beautiful Models — Aero-Ace and Aero-Wing
The Aero-Ace is illustrated.

White sidewall tires optional at extra cost when available.

The most exciting new car in a decade . . . Brilliant blending of aero and auto engineering gives breath-taking performance and a ride of air-borne smoothness . . . Mileage up to 35 miles a gallon

WANT a preview of the future? It's waiting for you at Willys dealers—the new *Aero* Willys. What's new about it? Everything!

The new aero-frame construction, combining aero-design principles with Willys' four decades of auto engineering experience. Its welded, single-unit structure is exceptionally rigid, quiet, long-lasting. The *Aero* Willys is functionally streamlined from its distinctive hood, shaped like the leading edge of a plane wing, to its rear air-fins.

Its new F-head power plant—the 90-horsepower *Hurricane 6*, producing more power for its size than any six in America. It has a 7.6 compression ratio but uses regular-grade gas. In the *Aero* Willys, you loaf along at 60 and cruise comfortably at 75. And you top every other full-size car on mileage—with overdrive, *up to 35 miles per gallon.*

Its "air-borne" ride—remarkable smoothness and quietness, brought about by new springing and a drive system floated on rubber pillows from engine to rear axle. You get helicopter-pilot visibility in the *Aero* Willys . . . see all fenders from the driver's seat . . . a panoramic view all around.

As for beauty, that's obvious—a wide body with graceful lines, a silhouette just 5 feet high. It's really spacious inside—61-inch-wide seating, front and rear.

You'll want to see the *Aero* Willys now . . . because it is the car that you have awaited and wanted for a decade.

MADE BY THE MAKERS OF THE WORLD-FAMOUS **Jeep** with billions of miles of tough service

WILLYS-OVERLAND MOTORS
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WARNING — Do not drive the *Aero* Willys unless you are prepared to be dissatisfied with your present car!

There are many reasons why you see RED BRAND fence so often

...and they all add up to one thing—Red Brand fence means *extra* value.

When you see the fence with the familiar red top-wire on farm after farm you can be sure that it has been selected because of the farmer's experience or because wise fence dealers have pointed out the features that assure more fence for the fence dollar.

You see, Red Brand fence is made of wire drawn in Keystone's own wire mills. It contains the right amount of copper for rust resistance—the weave assures rugged strength, and in addition Red Brand fence is Galvannealed for even greater rust-resistance and longer life.

If you're interested in *extra* value in fence see your Red Brand dealer. If you don't know the name of the dealer located nearest to you, write for it. Keystone Steel & Wire Company.

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Friend to Friend

Be safe

"If the worker has not learned, the teacher has not taught," runs a line in job-training instructions I read in a factory recently. When men, women, and children continue to have serious accidents every day, what should an editor think? For a long time we have been teaching farm and home safety. Yet, almost every newspaper will carry a story of needless suffering and expense caused by carelessness. Are we teaching if our readers have not learned?

The next fair question is, "How many more accidents might there have been without safety teaching?" There is no question in my mind about the value of teaching accident prevention. Our great industries have made remarkable records in 25 years of safety training. Our flying farmers have realized from the beginning the full importance of being careful at *all* times. No one has made a better record.

Flying farmers show up at most important outdoor farm meetings. Perhaps they might prove to be our best teachers of safety. A shower of leaflets or release of parachutes carrying safety messages could be very effective coming from those who set a good example.

Chips for bedding

I am impressed by the machines operated by a farm tractor that convert useless wood to chips for bedding. Wood for fuel is rapidly losing out. Bedding is getting scarce and expensive. Wood chips are good bedding, and when plowed into most soils, their effect is favorable.

Treetops, heavy brush, and useless trees all work up without a large amount of preparatory labor. If woodlots are to gain popularity, more uses must be found for wood of this kind. The chipper looks like a good possibility.

From limited demonstrations which I have observed, considerable power is needed to operate these chippers. Otherwise the job is too slow to be practical. How much it will cost per ton to produce bedding in this way must be carefully figured. Against this item can be credited the cost of piling and burning such material.

Antibiotics

In a single day my mail carried four different news stories about the possibilities of treating plant diseases with antibiotics. Brilliantly successful in human and animal treatment, why not test them in the plant world?

Some of my friends show up with dire predictions of adverse effects from the use of these materials for livestock. For example, the excessive marbling of hams in hogs getting antibiotics.

I will not be discouraged should some of these unfavorable reports prove well founded. Some authorities are convinced it is impossible to speed up rate of gain so much without producing some surplus fat.

Kind words

At a farm demonstration this spring, a leading farmer took me out of the noise range of a wood chipper to pay a fine compliment to Lee Knight, who wrote the February article, "Are Today's Children Learning the Right Values?" He said his Sunday-school class had spent a full period discussing it. And the same day I received a complimentary letter and request for 50 copies of the article. This came from another prominent farmer who is also a top farm-organization official. I am pleased to learn of such appreciation and proud to know this kind of thinking goes well among our best farmers.

More trees needed

My youthful muscles were developed chopping trees and clearing land, but I learned to love trees. I can never be broken of the habit of urging more tree planting, meager as the results of the last 30 years have been. Privately owned timber lots averaging about 62 acres each make up about three-fourths of America's forests. Our future timber supply is definitely in the hands of farmers. For instance, J. N. Spaeth, head of the University of Illinois Forestry Department, says there is enough marketable timber in the woods of Illinois to build 800,000 six-room homes.

Long-time financing coupled with the willingness to wait many years for returns will bring back trees. Special recognition is deserved by the American Bankers Association for production of a manual for bankers entitled *Trees and Bank Accounts*. The bankers emphasize the plain fact that there is a dependence between trees and the water table, trees and wildlife, trees and climate, and trees and bank accounts.

Biggest stumbling block to more farm woodlots is the lack of low-cost seedlings from state nurseries or private nurserymen under state contract.

Kirk Fox

STANDARD

FARM NEWS-GRAPHIC

THEY GET QUALITY, SERVICE!

"I knew him when he was that high," says Charles Brochman, right, about the young man filling his storage tanks. He is Paul Yocum who has taken over as Standard Oil Agent in the North St. Paul, Minnesota, area on the retirement of his father, A. A. Yocum, at left. Mr. Yocum served the Brochman farm for 30 of his 33 years on the job. Long records of service like this are common in the Standard Oil family. It's a friendly way to do business. Let us show you how it works. Call your nearby Standard Oil man today.

"You can't see the difference but it's there," says Standard Oil Agent Harold Jones in explaining about balanced gasoline. James L. Moster, expert feeder of Franklin County, Indiana, knows that *balanced* ground feed and *ordinary* feed look alike but the difference shows up in his prize cattle. It's the same with gasoline: the difference in balanced STANDARD RED CROWN Gasoline shows up in more powerful, more economical performance of your tractor. Your Standard Oil man can show you that it doesn't pay to take a chance on the quality of the gas you put into your valuable farm equipment.

News and Notes FOR APRIL

Need help? A leading university points out five ways to meet the farm labor shortage: Spread out peak loads by careful planning. Prevent accidents. Use equipment more efficiently. Train workers in labor-saving methods. Build community cooperation in solving labor problems. There's one more way to get extra help. Lots of folks think of their Standard Oil Man as an "extra hand." His prompt, friendly service will keep you from running short of fuel and lubricants just when you need them most. You can depend on him for quality products, dependable delivery, friendly service.

• • •

Every minute counts when you're working night and day to get your seed in, but don't ever try to save time by refueling while your tractor is running or while it's hot. You might get away with it, but don't take chances. And don't take chances on motor oil. Play safe with PERMALUBE Heavy-Duty Motor Oil.

• • •

In 1950, farms yielded 1½ million tons of iron and steel scrap, an average of 500 pounds per farm. We've got to do even better in 1952. Turn in yours NOW! You'll be giving your country's defense a real boost . . . and you'll be putting extra money in your pocket.

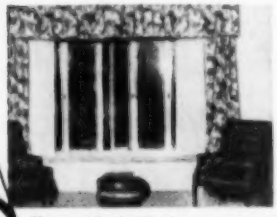
• • •

Now's the time to get acquainted with RED CROWN *Gasoline. It's the famous* KING-SIZE GAS BUY, *called that because it gives you premium volatility at regular price. "Let me fill your storage tank today."*

high-style window notes for your home

Open your home to the outdoors—yet get superior protection from weather—with a Curtis window group like this! The two Silentite double-hung windows flanking the picture window have special "floating" weather-strips to keep out winter's winds and summer's heat.

Like magic, a bay with Curtis Silentite windows makes a small room look larger. Silentite windows are always easy to operate in any kind of weather. You have a choice of many appealing styles.



Here are Curtis Silentite casements arranged in an attractive "bow" window. These casements are so weathertight that they cut fuel bills as much as 16%. They won't rattle or swing in the wind—are easily washed from the inside.

CURTIS WOODWORK
SILENTITE
the insulated window

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Please send your free *Silentite window* booklet.

Name.....

Address.....

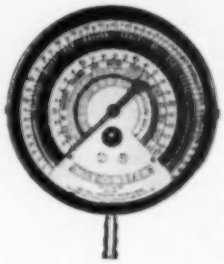
City.....*State*.....

What's new in farming

Tips you can use today

New alfalfa. This new alfalfa is named Rhizoma. It spreads from small rootlets that creep underneath the surface of the soil. These rootlets send up new plants. Rhizoma should be seeded at the rate of 2 pounds per acre and should be planted $1\frac{1}{2}$ to 2 inches deep. The new alfalfa was developed in Canada. It is a combination of Siberian, Ontario Variegated Grimm, and an unspecified male parent.—*Northern Field Seed Company, Winona, Minnesota.*

Motor gauge. This device is a miles-per-gallon-indicating gauge and motor-condition gauge built as a single unit. The device doesn't give better mileage but will show the rate of gasoline consumption. It also is said to indicate when a



motor needs service, enabling the operator to check deficiencies such as spark plugs, valves, carburetor, and others. The device, called the Mile-O-Meter, can be used on both tractors and automobiles. —*Gale Hall Engineering, 236 Huntington Ave., Boston 15, Massachusetts.*

Heat-lamp unit. This 4-lamp infrared heat-lamp brooder is designed to handle a brood of 250 chicks. A 17-inch hood protects the lamps. Four heat-resisting sockets are securely mounted and factory-wired. A wafer thermostat controls 2 of

the lamps for maximum use of electrical power. A loop hanger permits easy hanging by a chain and an approved cord with plug is attached for plugging into an electrical outlet.—*Steber Manufacturing Company, Broadview, Illinois.*

Fire extinguisher. This fire extinguisher is for Class B and C fires. It is a lightweight, 1-quart unit designed for hand

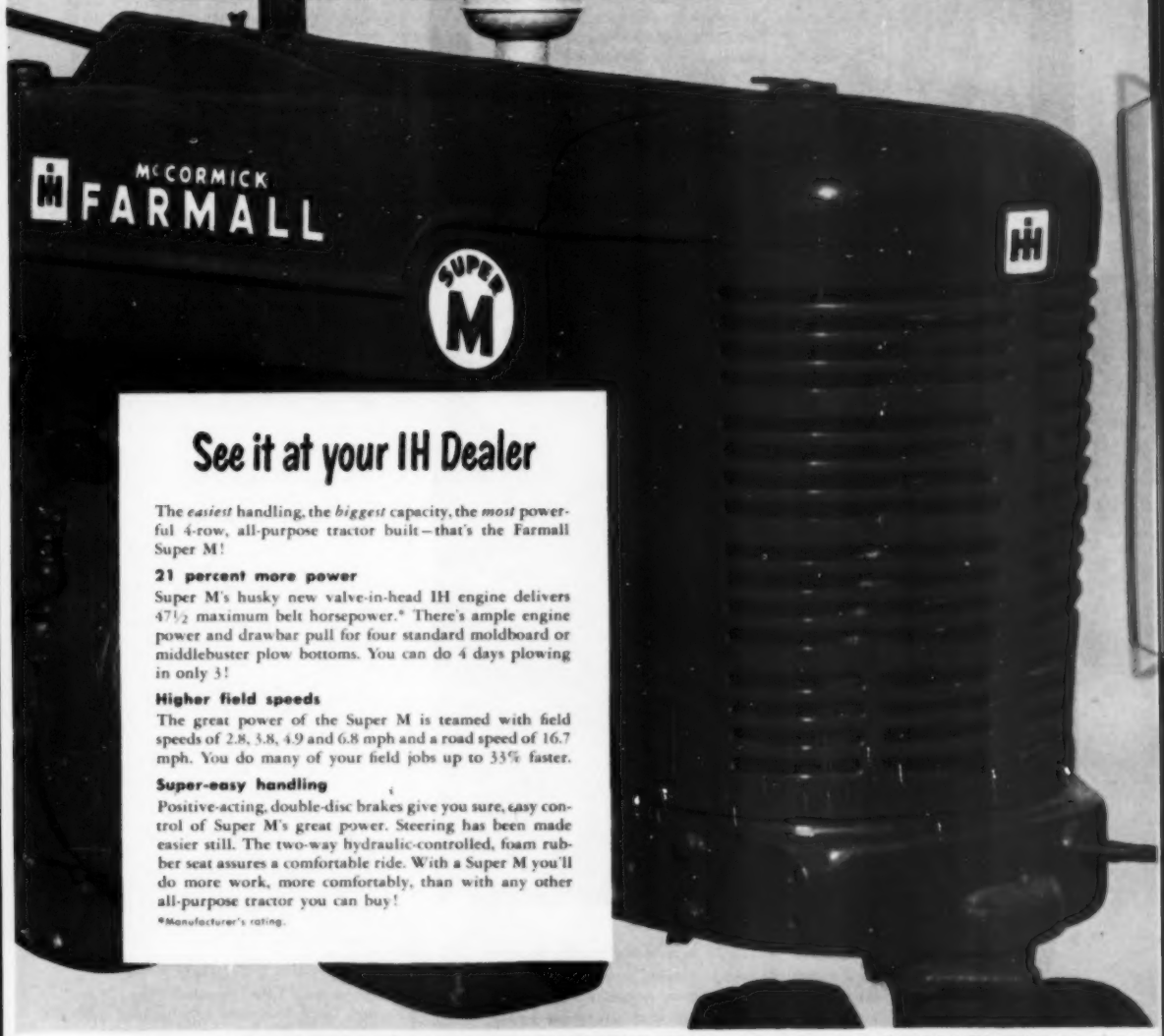
operation. It can be aimed like a gun and has an effective range of 25 to 30 feet for the bulk of the liquid. The carrying handle is designed so it can be stowed, making a compact unit. As the handle folds over the top mechanism, it provides a protective housing for the trigger, preventing accidental discharge. The nozzle is built to take a standard air chuck, such as those in gasoline stations. To pressurize the extinguisher, any air chuck capable of exerting a pressure of 150 pounds per square inch can be used.—*American-La-France-Foamite Corporation, Elmira, New York.*

LP-gas manifold. This "extra-cold" manifold is designed for use on tractors burning liquefied-petroleum fuel. Fuel consumption is said to be reduced 20 percent on LP-gas-converted tractors. The

manifold is designed to eliminate heat off the intake manifold. This line of manifolds is designed specifically for use with LP-gas only, and they are too cold for use with other types of fuels.—*Hi-Compression Products Company, Washington, Iowa.*

Weed killer. A nonselective chemical weed killer which completely kills dense growths of mixed grass and broad-leaved weeds has been announced. The chemical is called CMU. It is extremely safe so far as toxic effects on warm-blooded animals are concerned. This weed killer is reported to give excellent control of many perennial weeds such as Bermuda grass, quackgrass, Johnson grass, bindweed, as well as other annual weeds. Tests are being made into the duration of soil sterility produced by CMU.—*E. I. du Pont de Nemours & Company, Wilmington, Delaware.*

Now the McCormick® FARMALL® SUPER M



See it at your IH Dealer

The *easiest* handling, the *biggest* capacity, the *most* powerful 4-row, all-purpose tractor built—that's the Farmall Super M!

21 percent more power

Super M's husky new valve-in-head IH engine delivers 47½ maximum belt horsepower.* There's ample engine power and drawbar pull for four standard moldboard or middlebuster plow bottoms. You can do 4 days plowing in only 3!

Higher field speeds

The great power of the Super M is teamed with field speeds of 2.8, 3.8, 4.9 and 6.8 mph and a road speed of 16.7 mph. You do many of your field jobs up to 33% faster.

Super-easy handling

Positive-acting, double-disc brakes give you sure, easy control of Super M's great power. Steering has been made easier still. The two-way hydraulic-controlled, foam rubber seat assures a comfortable ride. With a Super M you'll do more work, more comfortably, than with any other all-purpose tractor you can buy!

*Manufacturer's rating.

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International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler Tractors and Power Units . . . Refrigerators and Freezers—General Office, Chicago 1, Illinois

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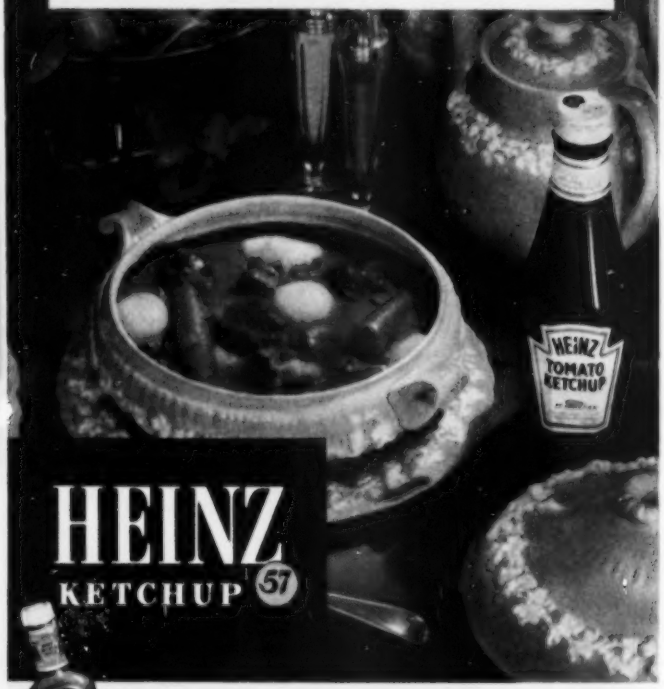
The Flavor That Can't Be Copied-Heinz Ketchup!

Its Matchless Zest And Goodness Have Made Heinz The World's Largest-Selling Ketchup!

YOU COULDN'T DUPLICATE the rich, racy flavor of Heinz Tomato Ketchup if you tried! Never were tomatoes, vinegar and spices blended together so artfully! Heinz chefs use Heinz own **"Aristocrat"** tomatoes, the rarest seasonings, fine vinegar —and follow the world's most valued recipe! ● *Try Heinz Ketchup to dress up plain foods with flavor frills!* You **know** it's good because it's **Heinz!**



HEINZ
KETCHUP 57

● **Famous HEINZ 57-SAUCE is a richly spiced favorite that lends a matchless tang to steaks, chops, fish and sea foods. Made to a prized old-time recipe, it's a medley of 17 flavor ingredients blended into one great sauce!**

● **You can count on HEINZ OLD-FASHIONED MUSTARDS —mild, tangy Yellow and full-strength Brown—to glorify ham, cheese sandwiches and many other dishes!**

Books

for your pleasure and profit

By Robert West Howard

Walt Whitman was a printer-editor who never got much farther west than Chicago. Yet he is an all-time farmers' poet, and his works chant of Nature's ways with a wisdom eternally modern. A copy of Walt Whitman's **Leaves of Grass** is a fine, inspirational work to have around the house for April-evening readings. (There are scores of editions of this book. Modern Library, 457 Madison Ave., New York 22, New York, puts out a good one for $1.25.)

Grass, plant growth, highway maintenance, flood control, gardens, babies are all part and parcel of Whitman's "eternal spring," and ours, too. Helpful, and very readable, new books discuss all these subjects.

Two good books out of England should be in the home library, if you're at all interested in grassland farming and soil structure. **Grassland and Grassland Products** by Dr. S. J. Watson, professor of agriculture at Edinburgh University (Edward Arnold & Co., distributed by Longmans, Green, & Co., 55 Fifth Ave., New York 3, New York, $4) is a skilled report on the composition and vitamin-and-mineral content of "grassland herbage." It also has chapters on grassland management, natural and artificial drying methods, grass ensilage, and "utilization of grassland herbage" . . . 200 pages in all.

Soil Conditions and Plant Growth by Sir E. John Russell (Longmans, Green, & Co., same address, $8) is a soils classic by the scientist who directed the historic Rothamsted Experimental Station in England and also headed the Imperial Bureau of Soil Science. The new eighth edition was revised after Sir John's death by Dr. E. W. Russell of Oxford University. Its 606 pages carry the most thorough discussion ever prepared for the average reader on soils, plant nutrients, water influences, microorganisms, and control of soil fertility. There's a lifetime of reference values in this book.

As gay as a yardful of crocuses—and as essential as a compost pit—is the new **Better Homes & Gardens Garden Book** (Meredith Publishing Co., Des Moines 3, Iowa, $3.95). The book is a beautiful production of 520 pages, in a washable-cloth, loose-leaf binder. Each of its 20 sections—from "Lot Planning" through "Garden Reminders"—is tab-indexed. There are more than 1,000 excellent color plates and black-and-white photographs, plus charts and line drawings of every garden problem from mole traps to Scotch heather. The text is professionally sound and readable, as might be expected from the editors of the world's largest home-and-garden magazine.

On down the road, if you are on a township board or particularly interested in highway construction, you'll find good use for **Highways in Our National Life** (Princeton University Press, Princeton, New Jersey, $7.50). This is a 500-page discussion of highways by 100 authorities in universities, state highway departments, auto clubs, insurance companies, and industry. It ranges from sober description of the road-building problems of Biblical times on to analysis of today's parking and traffic-court quandaries. This is another reference book that should be available in every farming community.

And, since springtime is floodtime, many farm readers will be interested in **The Dammed Missouri Valley** by Richard G. Baumhoff (Alfred A. Knopf, Inc., 501 Madison Ave., New York 22, New York, $3.75). Here one of the star reporters of the St. Louis *Post-Dispatch* recites the long, frustrating saga of the battle against flood and erosion in that one-sixth of the United States that is the watershed of "Big Muddy." This is objective reporting, with little word-mincing on state and federal politics, and a fine feeling of warmth for the valley's people and the area's potentials.

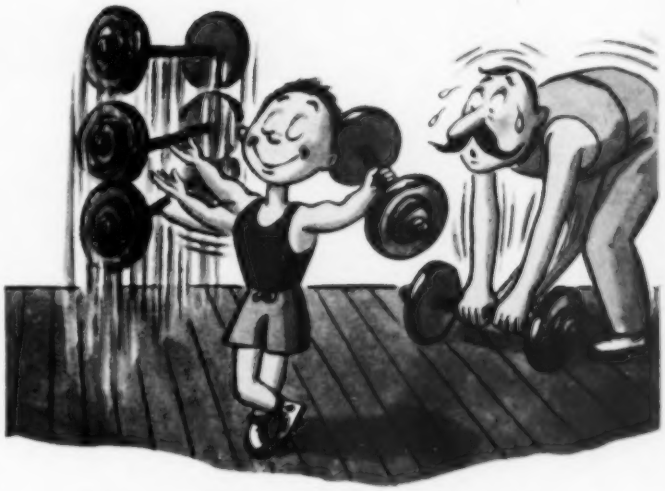
Back inside the house, this springtime, here are more useful books. If there's to be a "blessed event" in the family this month or next, the parents-to-be might like to own **Your Baby's Name** by Maxwell Nurnberg and Morris Rosenblum (World Publishing Co., 2231 W. 110th St., Cleveland 2, Ohio, $2.95). It lists every given name from Aaron to Zuleika, tells its meaning, and gives the famous literary quotations about it. There is a calendar of saints' names, too, plus some amusing baby cartoons.

Pop gets a break on this family business, in **Fathers Are Parents, Too** by Dr. O. S. English and C. J. Fisher (G. P. Putnam's Sons, 2 W. 45th St., New York 19, New York, $3.75). The authors set us males right down and tell us just what's involved in being a successful father, from morning sickness through to "Hi, Gramps." As father of three "sprouts," I learned a lot from it.

The Progress of Cooperatives by C. M. Maurice Wieting (Harper & Bros., 49 E. 33rd, New York, $3) is the first book to cross my desk that gives a broad and understanding explanation of the cooperative movement, both in the United States and abroad. The author is vice-president of the Ohio Farm Bureau. The publishers say this is a "textbook aid for teachers." It is more than that. "Maurie" Wieting has turned out a clear, concise report of farmer co-ops, consumer co-ops, their national and regional organizations in every country on earth. So again, we have a new, essential reference book for the neighborhood library that should be available to every farm family.

For spring or any other season, an excellent book is **The Nineteen-fifties Come First** by Dr. Edwin G. Nourse (Henry Holt and Co., 257 Fourth Ave., New York, $2). It's a keen 184-page look at today's price inflation by the veteran economist who pioneered farm cooperatives a generation ago and was first chairman of the Council of Economic Advisers to President Truman. **END**

He's feeling his CHEERIOS...



—the OAT CEREAL that needs No Cooking!

Yes ... a ready-to-eat OAT CEREAL with a whale of a lot of *GO* power!

Start your breakfast with Cheerios. You'll save time, trouble . . . and still help yourself and your folks to that wonderful oat energy. Yes, Cheerios is made from that good grain, oats...but ready to eat! It's the only famous oat cereal that needs no cooking. And so delicious! Shaped like golden-brown, little doughnuts, with a light, melt-in-your-mouth crispness. Get Cheerios in the large Family Size package. Contains 50% more Cheerios than the regular size.

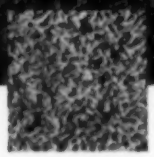
IN REGULAR AND FAMILY SIZE

General Mills

Women with a Sense of Style prefer **FIRTH** Broadlooms

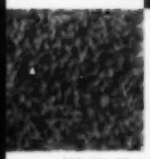
Dress from Bergdorf Goodman

Shown above, "Woolturf" in Hillside Green, approx. $14.95 per sq. yd.

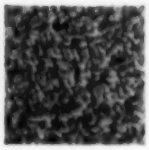


CORN SILK YELLOW

COUNTRY GREEN

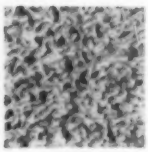


FRENCH GRAY



PARCHMENT BEIGE

CINNAMON



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Ask your dealer to show you "Woolturf" and the wide and wonderful Firth collection for every taste, every decor, at the Carpet Fashion Opening, April 21-30.

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What to expect from the farm price control muddle

Added to all the usual uncertainties that go with farming—weather, insects, general market ups and downs—farmers face still one other this spring. That's what the Office of Price Stabilization is—or isn't—going to do.

Lately, we've seen a flurry of announcements that O.P.S. is about to clamp ceilings on this or that farm product, giving the impression that farm prices were soaring. Actually, this is not the case.

At the moment, wool, soybeans, cotton, and potatoes are the only farm products price-controlled *at the farm*. But beef, veal, pork, lamb, mutton (and ducks, of all things!) have wholesale and retail ceilings which, in effect, limit what a processor can pay farmers. Beef cattle also have live-animal ceilings, but at the packer level.

Feed grains, poultry and eggs, wheat, and butterfat *might have ceilings slapped on* if prices were to rise. But price controls can't be set below parity. And of these, only butterfat is at parity. Here are the February levels:

Corn	94% of parity
Oats	99
Barley	98
Beef cattle	129
Butterfat	100
Hogs	81
Chickens	82
Eggs	81

Heavy livestock marketings forced most meats *below* ceilings in recent months. But, by summer, livestock marketings will shrink sharply—because of a smaller late-fall and early-spring pig crop, and because not much beef moves to market then, anyway. On beef, too, the short corn supply means lots of beef that would be corn-fed and moved into summer markets will stay on grass until fall.

At the same time, further boosts in demand seem likely—only a little over a fourth of the total money appropriated for defense actually has been spent to date. Thus, how high livestock prices go this summer depends not on supply and demand, but mainly on O.P.S. regulations.

Take beef cattle. O.P.S. has ceiling limits for *each grade* of cattle. But these aren't absolute limits on *every lot* of cattle bought. Packers can pay *more* than the ceiling for *some* cattle if they can buy other stock cheaper, to *average out* at the ceiling.

For example, *Prime steers* sold *over* ceiling late in 1951 because packers bought *cows* for *less* than ceiling.

What's more, through a complicated sequence of O.P.S. reasoning, packers last fall were permitted to *ignore live ceilings entirely* if they bought less than 50 percent as many cattle as they killed in an earlier base period—although they still had to comply with wholesale beef ceilings!

What the rules will be *this* summer, nobody knows today. But the unpredictable whims of O.P.S. could make a couple of dollars' difference in the price you get for fat cattle.

The hog-price ceiling situation is just as much up in the air. Wholesale pork ceilings are the only present limitations on what packers can pay a farmer for hogs. *O.P.S. reportedly, however, has decided to slap on live ceilings if hog prices start squeezing packer profit margins.* Normal marketing spreads on present wholesale ceilings would mean a Chicago live-hog ceiling of about $23.50.

Irony of the proposed hog-price ceiling is that the *extra* margins on hogs and pork taken by the meat industry during the low hog prices of winter months *don't count* under O.P.S. law! Ceilings can go on hogs *when they get to parity;* there's no way farmers can recover *their* losses taken when prices fell nearly 20 percent *below* parity this past winter. Then, O.P.S. didn't worry about lack of *farmer* profit margins.

O.P.S. regulations on cutting up heavy dressed lambs hurt the live price for heavy lambs in January and February. O.P.S. told packers exactly how to cut up these lambs, but packers could not sell all the heavy lamb carcasses when cut up that way. These regulations were lifted for late winter and early spring, so packers could use their own common sense in processing heavy lamb carcasses. But farmers selling heavy lambs later have no assurance what O.P.S. rules will be.

Corn ceilings of a little over $2 per bushel at Chicago reportedly already are written—ready to be clamped on if corn gets to parity. This price lid will be hard to enforce in the country, however. And not much corn ever gets to Chicago. The bulk is fed on the farm, or sold to neighbors for feeding there. Estimates of the number of bushels of corn in a crib can be "off."

Recent discounts on moisture and test weights will vanish; corn in the western Cornbelt could shoot up 50 cents to a dollar a bushel just through ignoring these gimmicks. Livestock feeders located a distance from surplus-producing areas will find real difficulty getting enough feed at what O.P.S. says should be the ceiling prices.

Potato ceilings at country shipping points vary by states from $3.35 to $3.85 per 100 pounds. Many growers feel that present ceilings do not represent proper differences in potato quality. And *all* growers agree that after taking a licking by Mother Nature in the form of a short crop, it's adding insult to injury to limit the price per bushel.

Soybean ceilings continue at $3.33 per bushel at Chicago. Ceiling on soybean meal is $88.43 per ton sacked, wholesale at Decatur, with not enough to go around in sight at this price. Processors say they can't afford to process beans; soybean-meal prices can't be raised enough to offset the low price of soybean oil. The result: Some farmers have been forced to feed cattle tankage for lack of oil meal. In some areas, this has led to custom processing of beans. It's led, too, to reports of speculative purchase and holding back of supplies of oil meal.

O.P.S. rules also cover many things farmers *buy*. *But*—the Capehart Amendment permits industry to *write rising costs into higher retail ceilings*.

Ceilings are set on used farm equipment. Lid for equipment less than 2 years old is 85 percent of the manufacturer's list price on new equipment; on older equipment, it is 70 percent of new list. But regardless of its age, "reconditioned" equipment sold under dealer guaranty has a ceiling of *95 percent of new list price*.

Add all this up. We get a smaller volume of farm-product sales, because of the 1951 poor corn crop. But O.P.S. rules prevent corresponding price rises to offset these smaller sales. END

Only COLGATE DENTAL CREAM

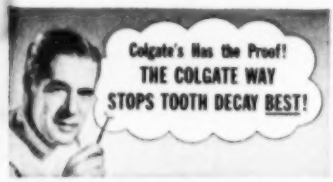
HAS PROVED SO COMPLETELY IT

STOPS BAD BREATH*!

***SCIENTIFIC TESTS PROVE THAT IN 7 OUT OF 10 CASES, COLGATE'S INSTANTLY STOPS BAD BREATH THAT ORIGINATES IN THE MOUTH!**

For "all day" protection, brush your teeth right after eating with Colgate Dental Cream. Some toothpastes and powders claim to sweeten breath. But only Colgate's has such complete *proof* it stops bad breath.*

Colgate's wonderful wake-up flavor is the favorite of men, women and children from coast to coast. Nationwide tests of leading toothpastes *prove* that Colgate's is preferred for flavor over all other brands tested!



Yes, science has proved that brushing teeth right after eating with Colgate Dental Cream stops tooth decay *best!* The Colgate way is the most thoroughly proved and accepted home method of oral hygiene known today!

No other Toothpaste or Powder OF ANY KIND WHATSOEVER Offers Such Conclusive Proof!

Get* PURE, WHITE, SAFE COLGATE'S *Today!

The farmer's Washington

By Richard Wilson

- **Eisenhower's farm advisers: middle-roaders**
- **U.S.D.A. can't shrug off all storage shenanigans**
- **New pressure toward farm unions**

Ike's farm program. Two men will emerge as the chief farm advisers in the Eisenhower campaign. One is the general's brother, Milton Eisenhower, president of Pennsylvania State College. The other is Representative Clifford Hope of Kansas.

Milton Eisenhower served in the United States Department of Agriculture under both Republican and Democratic administrations. He was first an information specialist under the Republicans. Then he became the chief information officer under Secretary Henry A. Wallace.

Hope was chairman of the Agriculture Committee in the Republican 80th Congress. He was often mentioned as probable secretary of agriculture if Thomas E. Dewey had been elected in 1948. He will be mentioned again if Eisenhower is nominated.

The above is based not on surmise, but on information. One farm observer said: "Ike's farm program will be like some of his other programs—a mixture of the Republican and Democratic." This sounded reasonable in view of Eisenhower's stand in favor of the middle-of-the-road idea in national politics.

U.S.D.A. "corruption." Agriculture Secretary Charles Brannan has been trying to blame irregularities in the U.S.D.A. largely on "unscrupulous businessmen." Warehouse operators are Brannan's main target, and the record does show some operators sold grain while still charging the Commodity Credit Corporation storage charges.

This is not the whole story, however. Up to March the record showed that 19 officials of the farm program were involved, in one way or another, in deals which led to their criminal prosecution or to their suspension from U.S.D.A.

Some were charged with taking cash gifts. In one case an employee cut in his mother-in-law for a nice slice of the government's money. Another was charged with falsely grading eggs. Two others were fired for allowing 13 employees to accept valuable gifts. Another got help in buying a car, television set, luggage, and clothing, from men wanting to deal with the government.

It is known that a good many farm-program employees have been more "on the make" for themselves than they were "on the ball" in promoting the farmer's general welfare.

In all, at least 22 U.S.D.A. employees received very nice gifts. They got boxes of cigars, $100 gift certificates, cigarette lighters, weekend trips, baseball and football tickets, expensive hats, and kegs of shrimp. These gifts, officially described now as "prejudicial to the service," were from people wanting to have favorable relations with government officials.

There was one gift to one employee which might have been useful: The Holy Bible (King James version).

Fewer farmers. In about eight years there will be a million and a half fewer people at work on farms. Ten years after that there will be three and a half million less than were at work in 1950.

This is the forecast of Dr. Francis J. Weiss, who has made a special study for a Senate labor subcommittee headed by Senator Hubert Humphrey (Democrat, Minnesota).

Doctor Weiss bases his forecast on the increased uses of chemistry in agriculture. These include the weed and insect killers, regulators of plant development, antibiotics, medicines, fungicides, defoliants, and so forth. The doctor forecasts that these substances will bring about "radical changes" in agriculture in the near future.

It is at least interesting to know that 5,000 commercial aircraft are in steady use for dusting, spraying, fertilizing, seeding, and so forth.

Doctor Weiss' forecasts add up to this: In 18 years, one-third of the present number of people employed on farms will have to drop out.

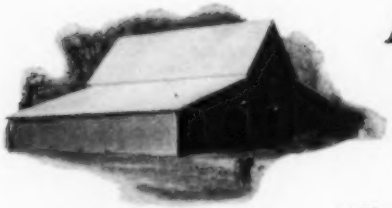
Forecasts. Speaking of forecasts, Dr. Louis Bean, U.S.D.A. economist and statistician for 20 years, has something new. He devised a system for making long-range forecasts of cotton yields—not for just a year or two ahead but 10 or 15 years, or more. Now he is working on a similar system for corn and wheat yields.

If Doctor Bean's system can be proved sound—and there is no doubt in his mind about it—this will be nothing short of revolutionary. Involved are long-range rainfall forecasts, which the weather bureau frowns on, but which Doctor Bean dares to make.

Plants and the atom. The Atomic Energy Commission has issued its fullest report so far on the effect of atomic radiation on plant life.

There have been some interesting effects. Unsprouted seed potatoes exposed to atomic rays remained firm under the ground. Ordinarily they would rot.

[*Turn to page 18*



Another Farmer Proves You Get More Cold Cash From Cooler Cattle!

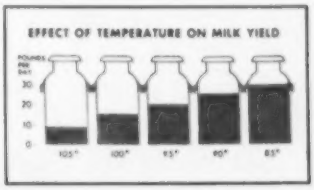
. . . and what's good for Cows, is good for Poultry, Hogs, Beef Cattle!

That photo above shows the dairy barn of J. D. Jewell, Inc., Gainesville, Ga. It is roofed with Reynolds *Lifetime* Aluminum. And Mr. Jewell says:

"I know Reynolds is right when they say that aluminum roofing will keep a barn or a poultry house up to 15° cooler in summer. My milk yield shows the difference! My barn is also warmer in winter, though without artificial heat. The heat from the animals reflects back from the roof. I make more money and I save money with aluminum!"

Whether you raise chickens, turkeys or four-legged stock, that summer temperature difference under heat-reflecting aluminum means more cold cash.

And there's a big dollar difference in maintenance, too—because rustproof aluminum lasts practically forever, needs no painting. Farm buildings are working tools . . . make 'em work, make 'em pay. Build with Reynolds *Lifetime* Aluminum.



It's worth a little wait for the best . . . Rustproof, Heat-Reflective

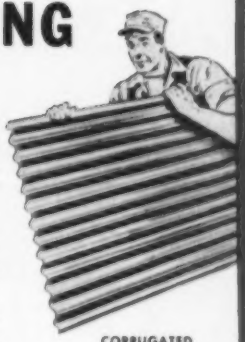
REYNOLDS *Lifetime* ALUMINUM ROOFING and SIDING

for 1,001 Farm Uses!
REYNOLDS *Lifetime* ALUMINUM FLAT-SHEET FLASHING
Ten 18" x 48" sheets of .019" aluminum in handy carton. For flashing, wagon flooring, vermin barrier, door kicks, etc., etc.

for Homes and All Farm Buildings!
REYNOLDS ALUMINUM REFLECTIVE INSULATION
High insulation efficiency without bulk. Perfect vapor barrier, too. Foil on one or both sides of kraft paper. Quickly put up.

Whether you're building a new structure or remodeling, a few months wait is small compared to years and years of extra profit and extra money-saving economy with Reynolds *Lifetime* Aluminum Roofing and Siding. Right now, military demands limit the supply, but Reynolds production of primary metal is rapidly expanding. See your dealer now and then take your time in planning . . . you'll be better off in the end. Ask him about matching gutters, too. Mail the coupon. Write for literature.

Reynolds Metals Company, Building Products Division, Louisville 1, Kentucky.



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Also, *FREE* "ADAPTOR PLAN" showing how to use aluminum with any standard building plan.

Check coupon. ▶

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☐ More information on buildings numbered (1), (2), (3), (4).

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Prince Albert is crimp cut, rolls easily. Smokes cool and mild for extra-tasty "makin's" smokes! Try P.A. and see!

Tune in "Grand Ole Opry", Saturday Nights on NBC

MORE MEN SMOKE

Prince Albert

THAN ANY OTHER TOBACCO

THE NATIONAL JOY SMOKE

Farmer's Washington

[*From page 16*]

Potatoes grown from the irradiated seeds were like any other potatoes. They recovered from the effects of radiation.

Some interesting experiments are going on with corn. The scientists hope—by exposing corn to atomic radiation—to be able to produce a smaller corn plant with a higher proportion of grain. Atomic-radiated corn is being crossbred with smaller varieties. Scientists hope to get a few seeds with desired characteristics.

Farmers' unions? A hearing has been going on in Washington on the "wetback" situation. This involves the importation of Mexican labor at, in many cases, very low wages (as low as 5 cents an hour) to work on large farms in the South, Southwest, and California. Outwardly this appears to be a human problem.

But as the hearings progressed before a Senate labor subcommittee, union organization of farm workers became a larger issue.

The National Farm Labor Union (A.F. of L.) took an active part in the proceedings. There has been much testimony on organizing farm workers, giving them the same union and collective-bargaining rights as other workers. **END**

YOUR CHANCE TO QUIZ THE CANDIDATES

As announced last month, *Successful Farming* will select questions from its readers to ask the Republican and Democratic presidential nominees. The same questions will be asked both candidates. Their replies will be published in the October *Successful Farming*. Send in today the question you think is most important. Here is how:

1. Write the *one most important question* you'd like to ask. Use 25 words or less.

2. In another 25 words or less, tell *why* this is your most important question.

3. Sign your name and full address, and mail your question to: *Candidates' Questions, The Editors, Successful Farming, Des Moines 3, Iowa.*

4. For the best questions, actually used, *Successful Farming* will pay $10 each. For the next 10 best, $5 Honorable Mention awards will be made.

5. Winners will be chosen on the basis of both question and reason. All questions, used or unused, will become the property of *Successful Farming*. The decision of our judges must be final.

6. All questions must be postmarked no later than June 25, 1952. Only one question per person, please. Winners will be announced in the October *Successful Farming*, with their questions and the candidates' answers.

Do you want to pay for

A Government Honeymoon at Niagara Falls?

You may be taxed for the cost of the most expensive honeymoon Niagara Falls has ever seen. The federal government's wooing of America's electric light and power threatens to reach a climax at the famous Falls.

Here's how. . . . A giant new hydroelectric power plant is going to be built on the Niagara River. And a critical point in the drive toward a government power monopoly is being argued over who will build it – the federal government or a group of 5 electric companies. (There is also a proposal to have the State of New York build the plant and sell the power.)

These electric light and power companies are ready with the plans and the money – and the lines to take the power where it will be needed – under normal public regulation.

But the job is held up – for there are people who want the federal government to take over electricity – as well as medicine and other businesses and services. They say the federal government should build the plant – even if it takes more time, and costs the U. S. public many millions in unnecessary taxes. Here's how the choice shapes up . . .

If electric companies build the plant

- **The companies and their investors will pay for it.**
- **Power produced will be shared by all, with rates regulated by state utility commissions.**
- **The Niagara project will pay about $23 million a year in local, state and federal taxes.**
- **Defense plants and others will begin to get the power in about 3 years.**

If the federal government builds the plant

- ***You* will pay for it in taxes – over $350,000,000.**
- **Specially favored groups will have first call on all power. Rates *won't* be regulated.**
- **Little, if any, taxes will be paid to local, state or federal governments from the sale of power.**
- **Government estimators say it will take them at least 5 years.**

NOTE: In no case would the scenic beauty of the Falls be affected. Nor has this project any connection with the controversial St. Lawrence Seaway.

Who do you think should build this new plant? Talk it over with your friends and neighbors. The decision ought to be made by the American people. . . . The government plan is a long step toward socialized electricity – because only power production is involved – with no other purposes, such as flood control, to complicate the issue. That's why these facts are brought to you by America's *business*-managed, tax-paying Electric Light and Power Companies.*

*Names on request from this magazine

"MEET CORLISS ARCHER"–CBS–Sundays, 9 P.M., Eastern Time.
Look for "THE ELECTRIC THEATRE" on Television.

Save on every tubful!

Use the automatic electric "Lectro Host"

L&H Water Heater

LECTRO L&H HOST

Use all the hot water you want! Enjoy this healthful luxury to the full. With an L & H water heater on the job, the cost is low.

Uses reflected heat

The secret of L & H water-heating economy is found in the principle of the Equato-ring, the heating element that encircles the tank.

Heat from this unique ring — both direct and reflected — is absorbed by the tank. The Equato-ring spreads the heat evenly over a wide area, so only a low heat is needed. Scaling and liming are practically eliminated.

Heavy fiberglas insulation *keeps* the water hot. L & H water heaters are sold with a written warranty that protects your investment. And they are further backed by the integrity of a company with a 77-year record of quality output.

There is a size (30 to 80 gallons) and a type (tabletop or upright) to fit your need. See your L & H dealer — or write for his name.

A. J. Lindemann & Hoverson Co.
The Finest in Home Appliances since 1875
Milwaukee 15, Wisconsin

The exclusive Equato-Ring® heating unit

Applies *low heat* over wide area of tank for real economy of operation.

L & H "Lectro-Host" Electric Ranges — the range that makes good cooks better

Latest "know-how" in foods

Your market basket of new products and novel ideas

Quick-to-make jelly in three flavors has recently been put on the market. A dehydrated mix, the product contains sugar, dextrose, fruit pectin, citric acid, concentrated fruit juices, and vinegar. Artificial flavor and U. S. Certified color have been added. The mix comes in three flavors—currant, grape, and raspberry. Each 3-ounce package fills seven 6-ounce jelly glasses. All you need to do is add the mix and sugar to boiling water, boil for 1 minute, and pour into glasses.

When you have oven spills, sprinkle salt on them, then a little cinnamon. Instead of unpleasant smoke, you get a pleasant fragrance. Then clean the oven after it has cooled.

For the baby: There is now a new precooked barley cereal on the market. Sold in 8-ounce cartons, the barley is recommended for convalescents, persons on a soft diet, and infants. Other new arrivals for the toddler: sweet potatoes, macaroni, tomatoes, beef, and bacon; chocolate and butterscotch pudding.

Here's a new, painless way to take vitamins: They come in the form of hard candy. Two of the candies are said to contain all the daily vitamins needed for children or adults. The candies are multicolored, hard, round balls—look just like candy.

Something new in cheese: The University of Wisconsin College of Agriculture reports a Roquefort-type (Blue) cheese without the usual green-mottled coloring. Tests in the cheese-ripening caves at Minnesota, where much Roquefort-type cheese is made, show that the white mold makes a satisfactory cheese and the mold growth can scarcely be seen.

If your family uses frozen orange juice: The Council of Foods and Nutrition of the American Medical Association says frozen juice is equal in nutritive value to fresh orange juice. Frozen orange juice, if made from properly selected and prepared fruit, will meet vitamin C requirements for all persons including infants. Loss of vitamin C may occur from improper storage or handling in the home. The reconstituted juice should never be allowed to stand in an open container at room temperature. Store in a refrigerator at 40 degrees.

Revolutionary New Devoe WONDER·1·COAT House Paint

gives you 2-coat beauty and protection in *just one coat* . . . slashes repainting costs nearly in half!

IN 1935, Devoe introduced the first two-coat house paint in history. Today Devoe introduces another great *first* to America—Devoe WONDER-1-COAT house paint.

Here's an entirely new concept in repainting your house. Now—instead of 2 coats, you need only *one* coat. Now—instead of going through all the motions of applying paint *twice* on your house, you need only go around *once*. You get the painting done twice as fast. When your paint contractor does the painting, you save hundreds of dollars on labor alone. If *you* do the work, you are free to do other things twice as quickly.

The percentage figures in the illustration at left conclusively show the relative hiding score of films of paint of equal thickness—for ordinary house paints as compared with revolutionary new Devoe Wonder-1-Coat House Paint! *Devoe WONDER-1-COAT House Paint far surpasses all other paints . . . has double the hiding power of ordinary paint.* Be sure and see the amazing demonstration of WONDER-1-COAT's phenomenal performance at your Devoe dealer (you will find his name and address listed in the yellow pages of your telephone book).

New Devoe Trim and Shutter Colors give individuality to your white house. Brush easily. Non-chalking. Stay bright for years. Many color choices at your Devoe dealer's.

For best results use a Superkleen brush.

DEVOE PAINTS

Devoe & Raynolds Co., Inc.
Dept. F-42, P.O. Box 1619
Grand Central Annex
New York 17, N.Y.

FREE! Please rush 28-page booklet, "86 Color Schemes for White Houses," showing how Devoe WONDER-1-COAT saves up to 40% on repainting costs.

Name_____
(please print)

Street_____

City_____ State_____

Big Ben

a man among clocks!

BIG BEN LOUD ALARM

Big, boisterous, but so grand to have around the house—that's Big Ben Loud Alarm. He has a friendly, reassuring tick you can hear; and a booming "fire alarm" call that's rough on sleepyheads. But he's certainly shown millions of people a good time, because he's the world's most popular alarm clock. You'll like him from the first minute on! And you can take him home for only $5.45. With luminous dial, Big Ben Loud Alarm is a dollar more.

POCKET BEN. Thin, good-looking and rugged. $3.25. Luminous dial, a dollar more.

WRIST BEN. Smartly styled and plenty sturdy. $5.95. Luminous dial, a dollar more.

Prices do not include tax and are subject to change

BIG BEN

Keeps America On Time

WESTCLOX

PRODUCTS OF GT GENERAL TIME CORPORATION

WHAT WAS NEW IN FARMING

50 Years Ago

"How to Obtain Good Seed Corn" was featured in an issue of *Successful Farming* during its first year of publication 50 years ago. Some of the rules have changed—and some haven't—as you can see by the following six principal points listed by Prof. P. G. Holden of Iowa State College:

First: It is very important that we should depend on home-grown seed for the main part of the crop and not upon imported seed.

Second: We should select ears of corn for seed which have kernels of as nearly uniform size and shape as possible; otherwise, it would be impossible to secure an even stand with any planter.

Third: Do not fail to test the planter thoroughly with the seed you intend to use, and stay with it until it drops regularly the number of kernels required in each hill.

Fourth: Test the vitality or germinating power of all corn intended for seed. This is especially important this year (1902).

Fifth: In case any seed corn is purchased from seedsmen, insist on having it shipped to you in the ear, either in crates or in barrels. (*Editor's Note: Times have changed, haven't they?*)

Sixth: All of this work, that is, the testing of the vitality, the sorting, the shelling, and the testing of the planter, should be done now, and the sooner the better. If put off until the hurry of spring work is upon us, there is danger that it will not be done at all.

Spring fashions: Patterns for the very smartest ladies' styles were offered by *Successful Farming* 50 years ago—as shown by the number pictured below. Here was the description: "Ladies' Blouse Jacket (with or without fichu) requires for medium size, $4\frac{1}{2}$ yards material 22 inches wide, $2\frac{3}{4}$ yards 36 inches wide, or $2\frac{1}{4}$ yards 44 inches wide. Lining required is $2\frac{3}{4}$ yards; 2 ornaments, and 14 buttons. Cut in five sizes—32, 34, 36, 38, 40 inches' bust measure."

Development of the separator. To Germany we owe the first suggestions regarding the separating of cream from milk by machinery.

A German scientist in 1859 demonstrated in a crude way that such a thing as separating cream from milk by machinery was possible. In 1864 a brewer in Munich, Germany, invented a machine that raised cream in jars by means of centrifugal force. In 1870 a minister in Massachusetts made the first successful attempt to separate cream from the milk. This was done by means of two glass jars attached to a spindle which revolved 500 times per minute. It required one hour to raise the cream.

At about this time, LeFeldt and Lentsch of Brunswick, Germany, exhibited a machine in which was obtained a thick layer in 20 minutes, making 700 revolutions per minute. In 1877 a patent was granted to the last-named parties for a machine to separate cream from milk by centrifugal force. Although the device was very crude, it contained many suggestions unthought-of before, and the dairy world was set to thinking. As a result, we have the modern dairy separators of today.

Smart for 1902. Another spring style was the Ladies' Monte Carlo Shirtwaist with fitting lining, pictured below. Its description: "Requires for medium size, $3\frac{3}{4}$ yards material 22 inches wide, $2\frac{1}{4}$ yards 36 inches wide, or 2 yards 44 inches wide. Lining required, $2\frac{1}{4}$ yards; velvet ribbon represented, $4\frac{1}{2}$ yards; 18 buttons."

Schools. Consolidated schools mean better equipment, better teachers, better attendance, better schoolhouses, and above all, they are conducive to the betterment of the school life of both young and old in the farming district.

Livestock. The greatest profit lies in bringing your livestock to maturity as quickly as possible, and at a minimum of expense.

Horse training. When training young horses, it is important to teach them one thing at a time, and to teach that thoroughly before beginning something else. Nothing should be more gradual than the development of the power of a draft horse, or the speed of a trotter.

Measure Ford's performance! Ford's completely new high-compression 101-h.p. Mileage Maker Six with free-turning overhead valves is the most modern Six in the industry . . . and Ford's high-compression Strato-Star V-8—now stepped up to 110 h.p.—is the only V-8 in its price class. Both of these engines give you the economy of high-compression performance on regular gas!

Measure Ford's size! The big new Ford for '52 brings you greater length and wider front tread . . . interiors with plenty of room for six . . . largest luggage compartment in the low-price field.

Measure Ford's ride! Lower center of gravity, new "tailored-to-model" front springs, longer rear springs and diagonally mounted shock absorbers adjust your ride automatically to conditions of load and road. You ride in smooth level comfort always.

'52 Ford

Meets the widest range of motorists' needs

* **And only Ford in the low-price field gives you your choice of all 3 drives: Fordomatic, Overdrive and Conventional.**

White sidewall tires (if available), Fordomatic and Overdrive optional at extra cost. Equipment, accessories and trim subject to change without notice.

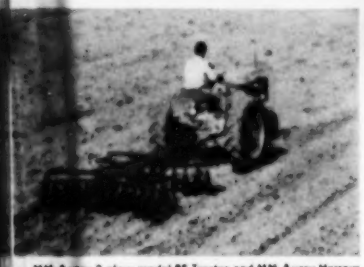
Most "GO" in its class! "Test Drive" it today at your Ford Dealer's!

Money-Making Machines...

TO FIT YOUR FARM!

Just right for the small farm . . . ideal as a second tractor is this MM Avery 1 plow V Tractor. Matched machines available for every farm chore.

R Tractor and 2 bottom MM Hi-Klearance plow covers trash better—provides greater clearance to prevent clogging.



MM Avery 2-plow model BF Tractor and MM Avery Harrow assure uniform seedbed preparation at low cost.

The MM Bale-O-Matic delivers uniform square cornered bales that stay tied with wire. Operator of this 2-plow R tractor is the only manpower needed.

Two LP gas-equipped 3-4 plow U Tractors with Quick-On—Quick-Off cultivators do a fast, clean, economical job of cultivating.

MM Tractors and matched machines are built to cut your farming costs—boost your farm profits!

As a farmer-businessman you face many critical problems, one of which is the need for greater production with fewer man-hours. You have to be able to meet tricky weather conditions—be ready to go when field or crop conditions are right. The shortage of good farm help makes it necessary for you to plan carefully. You and your family may have to work longer hours, *and you must make every minute count!* For these reasons you carefully select your machine tools of production . . . weigh all the advantages claimed . . . check carefully with your neighbors who own the type of equipment you plan on purchasing. Minneapolis-Moline invites that kind of comparison.

How do you compare farm machinery? First from your own experience. Then you get first-hand information from your neighbors who own and operate MM Visionlined Tractors and Modern Machines. MM's reputation for *greater dependability, lower operating and low maintenance costs should interest you.* MM Tractors and MM Modern Machines are Money-Makers because they are *matched* machines . . . teammates that are engineered to work together to *produce more, at lower cost, and with less fatigue.* Example: Quick-On—Quick-Off planting and cultivating tools minimize equipment investment; MM Uni-Matic hydraulic power controls raise and lower machines by means of a single lever—finger tip controlled—and equipped with a Safety Lockout device for your protection. The Bale-O-Matic is the completely automatic baler that requires only the tractor operator for production of uniform, wire-tied, square-cornered conventional bales.

Whatever equipment you may need, whether it be a tractor or plowing, planting, cultivating or harvesting machinery—tractor-mounted or pull-behind implements—it will pay you well to look over the complete line of MM Tractors and Modern Machines. Check with MM owners in your community. You want dollar for dollar value, quality construction and long-life dependability in your equipment investment. You can expect more, *and get more,* of the quality features you want *and need* when you purchase Money-Making Modern Machines and Visionlined Tractors carrying the Minneapolis-Moline trade-mark.

Quality Control IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD

MINNEAPOLIS MOLINE MODERN MACHINERY

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

MINNEAPOLIS-MOLINE
Minneapolis 1, Minnesota

I farm _____ acres and am interested in getting more information on the following equipment: _____

Name _____

RFD _____ Box No. _____

Post Office _____ State _____

4-5 Plow Mighty G Tractor and MM Uni-Tiller equipped with stiff tooth field cultivator.

Universal Z Tractor and MM Tandem Disc Harrow assure uniform penetration even on turns—tractor control angling while on the go.

3-4 Plow Standard U and fan-out MM Wheatland Disc plow—now with improved, weighted rear end construction.

A remodeled barn for "one-man" dairying

By C. H. Van Vlack

The old barn on the Pearson-Bailey dairy farm just southwest of Burlington, Iowa, has been adapted to the housing, feeding, and milking of upwards of 20 cows. One man does all the work, and cares for the regular farming program, too. A "loafing" area for the cows, combined with the adjacent milking parlor and milkhouse, is the solution.

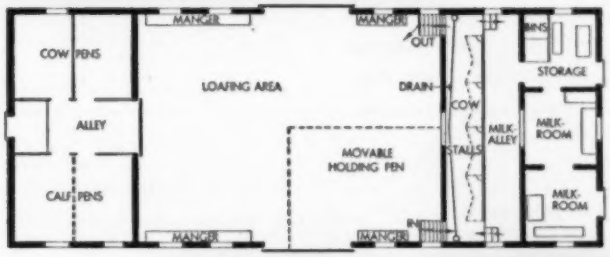
Dr. George J. Pearson of Burlington, farm owner, and James Bailey, operator, planned the remodeling of the old barn. The ideas they built in were largely their own. In recent years they had given much attention to the loafing-pen barn where the cows can run loose and rest or loaf between the times they are being fed and the times they are being milked.

Doctor Pearson said, "I became convinced a long time ago that too much tedious labor was required in herd care and management in the usual-type barn. And I had a number of encouraging reports of the production from herds in run barns. Also, less labor is required for milking and doing chores where loose housing is used."

Bailey and Pearson had heard the disadvantages of the loafing barn, also. "We read and heard that more bedding would be required. Loafing barns require 15 to 25 pounds of bedding per cow per day, as compared to 8 to 12 pounds in the usual dairy barn. However, we felt that could be a disadvantage only if bedding were scarce. This is a 150-acre farm, and we produce our own rough-

[*Turn to page 26*

Remodeled barn has paved lots on east and west. Floor plan, below, shows arrangement of interior of barn. Note inside mangers, bin for feeding, double milking parlor



Six-foot-wide milking alley provides plenty of room for milker. Windows at each end make it light. Tub and shelf are mounted on wall

TRUE TEMPER

3-TINE HAY FORK

• Perfect "hang" and balance for easy use. Tines forged from spring steel tempered for toughness and resilience. Select ash handle with tubular steel ferrule for extra strength. There's a True Temper Fork for every farm need—unequalled in quality, utility and value!

DYNAMIC SHOVELS

Ounce for ounce the strongest shovel made — because the one-piece blade and socket is taper forged from a bar of solid steel! Perfect balance, no side wobble. Ash handle, fire hardened to resist weather and wear, a lightweight champion. See it at your home town hardware store! True Temper Corporation, Cleveland 15, Ohio.

For over 100 years makers of fine tools, fishing rods, golf shafts.

When LIGHTNING Strikes—

Your fire insurance policy takes on new importance. . . . The National Board of Fire Underwriters reports that 37 per cent of farm fires are caused by lightning. . . . If lightning were to strike your barn would you suffer financially? . . . In view of inflated values, have you reviewed your coverage recently? If not, then consult one of our agents, trained to give you expert advice on your insurance needs.

Rely on your local America Fore Farm Agent for sound insurance protection—and for full friendly help in settling claims! To locate him, call Western Union by number and ask for Operator 25.

The America Fore Insurance Group comprises the

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AMERICAN EAGLE · FIDELITY and CASUALTY
INSURANCE COMPANIES OF NEW YORK

LOOK FOR THIS SEAL ON YOUR POLICIES

America Fore
INSURANCE GROUP

A remodeled barn

[*From page 25*]

ages. More and better-preserved manure can be spread on the fields when more bedding is used."

The old 36'x68' barn had much in its favor. It was structurally sound and of the right size. No major wall or roof changes were required. The milking parlor and milkhouse addition was made sanitary and fire-resistant by building the first story with masonry walls and ceiling. This 24'x36' area also provides space for additional hay storage, feedbins, and water heater.

You will note from the floor plan that the milking room is partitioned from the lounging area, as is required by regulation in most milksheds. The partition makes it possible to apply some heat to the room during very cold weather. A hot-water radiator and a fan supply a small amount of heat if desired.

The milking parlor is a real laborsaver. Feeding concentrates at milking time attracts the cows to the milking parlor. Bailey says, "I seldom have to leave the milking area at milking time. The cows stand ready to come in when I open the door, and they line up in order. I can milk the cows, usually upwards of 20 an hour. I use two milking units and don't have to hurry to keep the procession moving. Each cow has time for her particular amount of ground feed. Having the bins next to the milking room saves steps."

The loafing-barn system of bedding and hay-feeding further reduces the labor requirements. Care was taken to provide at least 9' of headroom. This allows for the manure pack in addition to the height of the cows. A tractor-mounted manure loader has room to operate inside the barn. Manger feeding along the outside walls gives enough loafing room.

Ventilation in the barn is furnished by tilt-in windows. Windows are also used for air change in the milkhouse and milking parlor. Insulated walls in the milking end of the barn simplify the ventilation problem. Moisture doesn't collect, and insulated walls and ceiling help in keeping the milkhouse dry. A 12" electric exhaust fan located above the tubs and high up on the wall near the ceiling helps in removing excess moisture.

The remodeled barn is exactly suited to a one-man dairying program. The heavy labor has been eliminated, and even Mrs. Bailey has done the milking in an emergency. Time and labor are two of the farmer's biggest problems. Bailey says this barn has helped him solve both. **END**

SUCCESSFUL FARMING

Rain!

Farmers Buy What They PREFER . . . and THERE ARE MORE FARM TRACTORS ON Firestone TIRES *Because—*

FARMERS have always preferred the advanced design and better all-around performance and pulling power of Firestone tractor tires. Only Firestone Champion Tractor Tires give these extras:

Curved and Tapered Bars . . . For a sharper bite and greater penetration.

Flared Tread Openings . . . To prevent soil jamming and to permit easy soil release.

Wide, Flat Treads . . . For greater traction power and longer life.

A Choice of Two Tread Designs . . . Open Center and Traction Center patented tread designs.

These are just a few of the many reasons why there are more farm tractors on Firestone tires than any other make. Go to your Firestone Dealer or Store and see for yourself why Firestone tires pull better, last longer, and turn out more work for your tire dollar.

WHEN YOU ORDER A NEW TRACTOR OR OTHER FARM EQUIPMENT, SPECIFY FIRESTONE TIRES

Firestone Put the Farm on Rubber

FIRESTONE TIRES ARE *FIRST* WITH FARMERS TODAY

Enjoy the Voice of Firestone on radio or television every Monday evening over NBC

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Wonderful discovery added to boiled starch overcomes "gluing action". Renews beauty of fabrics with exclusive Satiny-Smooth finish.

Knocks out Iron-drag, Stick and Scorch ...ends "bunching and pulling" drudgery at your ironing board.

Only **SATINA** Promises faster, easier "Speed-Ironing" for life!

- **Clothes stay cleaner; look newer; smell fresher**
- **Costs less than 2¢ a starching**
- **Easy directions with package**

Guaranteed by Good Housekeeping

A Product of General Foods

BURPEE'S "PRIZE" FLOWER SEEDS
50¢ VALUE—ONLY 10¢

Two 25¢ packages Burpee's Seeds...1 Marigold, 1 Petunia—**PLUS** a full size package of SATINA . . . ALL for only 10¢! Mail Coupon today with 10¢ coin to: SATINA, Dept. A4, Box 110, New York 46, N.Y.

NAME_____

STREET_____

CITY_____ZONE____STATE____

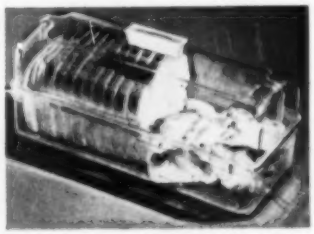
Offer expires Aug. 31, 1952

What's new in homemaking

A vacuum cleaner that's compact and balanced for easy carrying anywhere in and about the house, this new model Jet 99 is only 21¾ inches high and weighs only 18 pounds. The motor—claimed to be extra powerful—and the nozzle with its floating brush create strong suction said to pick up embedded dirt, threads, lint, and dog hairs easily. It can be

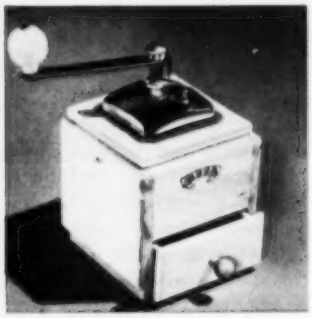
opened instantly for emptying by pressing a button to release the cover; dirt, in a disposable paper filter bag, can then be lifted out easily. The cleaner is finished in durable, two-tone green enamel, comes equipped with a full set of tools for special cleaning jobs. Available at Universal dealers for about $99.95.—*Landers, Frary, and Clark, New Britain, Connecticut.*

Breadbox of sparkling-clear plastic with specially designed, snug-sealing lid is said to keep bread fresh for seven days at room temperature. May also be used in freezer for cakes, cookies, sandwiches, or bread.



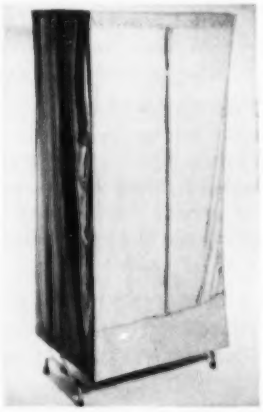
Box is 12¼x5½x5 inches, has bright red or yellow plastic handle fused directly to the lid. Costs $1.39 at variety, department, hardware stores.—*Tri-State Plastic Molding Co., Inc., Henderson, Kentucky.*

Coffee grinder, interesting to look at and fun to use, provides really fresh-flavored coffee. Made in the American Zone of Austria, the grinder has a varnished hardwood case with natural-



grain finish. Can be adjusted easily for any grind from coarse to fine. Nice for a gift or to keep. May be ordered for $6.95, postpaid, from *Unusual Gifts, 575 Atlantic St., Bridgeport 4, Connecticut.*

Stor-Roomette, sturdy plastic "closet," gives extra storage space for clothing and bedding. Holds more than 20 garments, protecting them against dust and moisture. Supported by its own chrome-



finished steel legs and frame. Dimensions: 28x22x63 inches. (Other sizes available, also.) Prettily trimmed with quilted plastic, it comes in wine, hunter green, blue, lime, and flame. Price is $15.75 at department stores.—*Berkeley Industries, Empire State Building, New York, New York.*

[*Turn to page 93*

How did I ever do without it!

Procter & Gamble's Exciting, New

CHEER

specially made for

"Tough-Job" Washing

There just isn't anything like it! Procter & Gamble's most exciting washday discovery in more than 100 years. New CHEER is *specially made* to do "tough-job" washing *better* than any soap you've ever used!

Even dirtiest clothes come sparkling clean! See how toughest washing jobs come fresher, cleaner in hardest water! When you see how CHEER suds out even greasiest, ground-in dirt, you'll see why new CHEER gets *all your wash* so beautifully clean and white!

Here's the secret! New formula makes CHEER *different* from any washing product you've ever tried!

Yes! New CHEER is specially made with the *extra power* you need for your *extra-tough* washing jobs!

Safe for colors, too! With all its "tough-job" washing power, new CHEER is *safe* for colored washables, *kind* to hands!

Keep CHEER on hand! Get the Giant Economy Size package.

Watch for CHEER in your locality.

Double-Your-Money Back if you don't agree that new CHEER does "tough-job" washing better, gets all your clothes *cleaner, whiter* in hardest water—than any brand of soap you can buy. For CHEER's extra washing power not only removes grease and graying dirt, but dulling soap film as well. Try CHEER today!

No matter what soap you're using now

CHEER guarantees a CLEANER, WHITER wash

CHEER IS THE TRADE-MARK OF A SPECIAL ALL-PURPOSE DETERGENT MADE BY PROCTER & GAMBLE
© 1951, THE PROCTER & GAMBLE COMPANY

VAPOCAN puts ease in your home freeze

EASY TO FILL. Save time, save effort with **VAPOCAN'S** full-top opening, and squared sturdy body. No time-wasting setups or inner linings. **VAPOCAN** stands steady for filling. And it's just as easy to empty, either frozen or defrosted.

EASY TO SEAL. No messy heat seal with **VAPOCAN.** Just press on the new improved plastic lid — and you have a sure, easy, efficient seal. Use permanent lids over and over to save money. Lids are rimmed for firm stacking, can be crayon-marked for identification.

EASY TO STORE. Save locker space with **VAPOCAN'S** squared body. Ideal for vegetables, berries, cherries, fruits, chopped meats, even liquids. In the handy pint-and-a-half size, at most locker plants, appliance and department stores.

All around the house

Here are some tips to help save yourself some time, steps, and work

● I sew a piece of muslin, about 12 inches long, on the end of my "too-short" blankets and tuck this end in at the foot of the bed. There is plenty of blanket to cover with, and the covers won't pull out easily. —*Mrs. A. C., Minnesota.*

● **My dusting helper is a small flat sponge which I keep in a small glass jar containing 1 teaspoon furniture polish. When preparing the sponge for use, I hold the glass jar so that the polish sticks to all the inner surface, place sponge inside, and leave it overnight.** —*Mrs. B. B., Wisconsin.*

● I buy large sheets of blotter paper to match my kitchen color scheme and line my stove and metal-cabinet drawers. The paper helps reduce noise, absorbs moisture, and protects the enamel against tiny chips. I also use brightly colored blotter paper to line dark sewing-machine drawers. It makes buttons, pins, and other pieces easier to see.—*Mrs. S. L., Illinois.*

● **When making apple salad, I often use a small amount of peanut butter whipped into the salad dressing. This takes the place of peanuts, but still gives the desired flavor.**—*Mrs. F. F., Ohio.*

● To keep a bandaged hand dry while washing dishes or paring vegetables, I use a quart-size plastic bag of the type used in locker boxes. I place my hand in the bag and secure with a large rubber

band. The bag is large enough to allow the hand to grasp and hold objects, and the rubber band prevents water from entering the bag.—*Mrs. H. W., Missouri.*

● **Before greasing a cake pan, I put it in the oven so that it will warm slightly. The grease melts as it spreads, and covers the pan uniformly.** — *Miss M. S., Michigan.*

● An ice cube is a handy aid for redampening dried-out spots when freshly laundered clothes fail to smooth out easily. I rub the cube lightly over the too-dry area, taking care to moisten, not saturate, the spot.—*B. R., Wisconsin.*

● When frosting a large cake that won't be eaten all at once, I make a little extra frosting, and, after the first servings, frost the cut edge of the cake. I find that the cake stays moist and fresh until the next serving.—*Mrs. L. S., Minnesota.*

● I made an attractive wall ornament and planter from three syrup bottles—the type with handles at the top. I painted the bottles white and tied them on a soft white rope so that the top of each bottle

reached to the middle of the one above it. Against a dark wall and with a trailing green plant, they make a striking ornament.—*Mrs. A. E., Minnesota.*

● When using waxed paper on a flat surface for rolling piecrusts, I wet the surface and put the waxed side of the paper down. The paper clings to the dampened area and doesn't wrinkle up.—*Mrs. B. T., South Dakota.*

● When my iron becomes soiled or sticky from burned-on starch, I clean it with a little silver polish.—*Mrs. O. A., Iowa.*

● A household "log" is a timesaver for me. In it I record necessary data such as the length of windows, floor measurements, how much paint was used in a particular room, or the amount of wallpaper used for a certain job. In the same book I keep addresses of the business firms where repairs for household appliances may be obtained. —*B. G., Ohio.*

● After ironing pillowcases, I fold each pair together. Then, one reach in the linen drawer or shelf will secure one pair. —*Mrs. L. F., Iowa.*

● I drop a piece of string through the top of a dry-cleaning bag, fasten it to the garment hanger, and pull the garment up into the bag without tearing the bag.—*Mrs. W. B., Ohio.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

Even Grimiest Hands Clean in 30 to 50 Seconds with amazing LAVA SOAP...

Of all leading soaps ONLY LAVA has "HAND-BRUSH ACTION" right in its creamy lather!

Contains thousands of tiny "scrubbers" that clean like a gentle hand brush—get dirt out of skin creases, 'round nails!

Zingo! Hands sparkling clean in seconds—no matter how greasy or grimy the chore! No ordinary toilet soaps compare. Yet Lava is *mild* enough for tots! Get plenty today. World's *only* leading soap with "Hand-Brush Action" right in its creamy lather!

Enjoy Lava's "Hand-Brush Action" *whenever* hands are washed!

★ Rich lather in hardest water!
★ Leaves hands softer, smoother!
★ Saves towels; no more smudges!

LAVA SOAP CLEANS LIKE A HAND BRUSH... LATHERS LIKE CREAM!

"Imagine US going to EUROPE!"

"Always wanted to see Europe, never thought we would. But this year things are different.

"Friendly Scandinavian is putting in some rock-bottom tourist fares* May 1st. They're the answer to my cost problem. Time's no problem either since those big, dependable, American-built DC-6's and DC-6 B's will put us 'over there' overnight from New York—and in real 'home' comfort, too.

"Of course, you can go anywhere in Europe on SAS at these new low rates but we're going up into Scandinavia. They have wonderful farms and maybe I'll learn something new. Might even take in the Olympic Games, too.

"Our round trip ticket to Stockholm is only $608.60 each and we can stopover in Scotland, Germany and Denmark *at no extra fare*. We figure that's a real bargain from start to finish."

*Subject to Gov't approval. Tempting, budget-priced meals available.

Full details on tourist and first class Scandinavian trips to the North Country as well as to the rest of Europe, are available from your nearby Travel Agent. See him for reservations—remember, his business is to help you, his services are free.

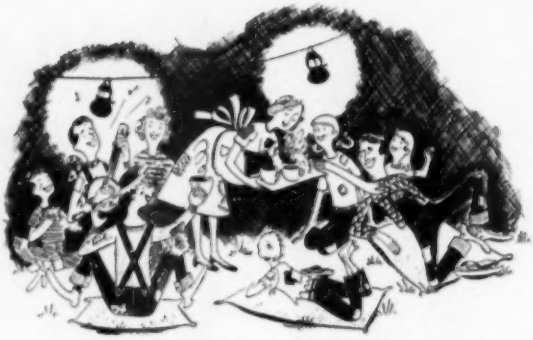
SCANDINAVIAN AIRLINES SYSTEM

New York • Chicago • Seattle • Minneapolis
Los Angeles • Detroit • San Francisco
Cleveland • Washington • Philadelphia

YOUR SKYWAY TO EUROPE

The whole family throws a

hobo hobnob



A good time, hobo-style, for old and young

By Carol Lovrien

Jump into your raggedest overalls, Dad! Mom, tie on your cotton wash apron. Even the kids way down to the teeniest junior scamper into jeans patched with red and yellow and checkered squares. Your whole family is throwing a Hobo Hobnob for the neighbors, young and old.

Bums rush in, come party time

Small fry. A week ahead of time you fix the invitations. Tear off pieces of brown wrapping paper about 6x4 inches. Crumple the pieces in your hands, then smooth them out. Hold each invitation over the sink and with a match, singe the edges black. Now you are ready to print the message in black crayon:

Hitch up your whole family
in the bummiest clothes you can find
and hobnob with the rest of the hobos
at Stewart's Tramp Camp
Saturday night at 8

The day of the party you turn a corner of your yard into an honest-to-goodness hobo camp. Set the stage with a small pup tent, newspaper-patched. And just outside, a mock fire with an ever-brewing coffeepot hanging from a spit above. Collect an array of clean gunny sacks to sprinkle generously around the grass for seats. Place several lanterns at strategic spots for atmosphere lighting as darkness falls.

Dad and Grandpa. You go into cahoots to lead the games. Judging the costumes comes first, and you may want to choose someone to help you decide on the shabbiest tramp. The children can make a gold paper crown for the king or queen of hobos. Give a giant enameled coffee cup with name printed on it hobo-style to first place. Add a can of beans in a bandanna packsack for second and third best tramps.

Spot the hobo. Everyone stands in a big circle. One player is "It" and leaves the circle while the others pick a hobo. "It" comes back to the center of the circle. The hobo starts an action such as clapping hands or stamping feet and everyone joins in. "It" tries to guess the hobo. Every time "It" turns his back, the hobo starts a new action. When "It" guesses the right hobo, he chooses a new "It."

Peanut scramble. Divide the hobos into two lines. Put a pan of peanuts on a table in front of the lines. At a signal, the first person in each line runs to the pan, shells a peanut, eats it, and runs to the back of his line. Each person in the front

Hobo games bring laughs galore

of the lines takes his turn. The first line finished wins a peanut for each hobo.

Hound dog. Give each hobo a piece of paper about 9x12 inches. At a signal,

[*Turn to page 80*

B.F. Goodrich

tires speed farm production at 14,000-acre Schramm Ranch

IN the early 1920's, Emil Schramm came out of the Nevada gold fields, started farming 30 acres near San Joaquin, Calif., with horses for power.

Today the Schramm Ranch is a 14,000-acre operation with more than 6,500 acres in cotton, 2,000 in small grain, 2,000 in alfalfa and thousands of acres in pasture land. Some 1,250 head of cattle are in pastures and feed lots.

This is irrigated farm land—and completely mechanized farming. For example, 59 tractors are in operation, 6 combines, a 4-wheel drive field service truck, 15 other trucks, ranch cars and a jeep.

For all this equipment they want tires that keep farm machinery rolling without lost time from tire failures. And the Schramm Ranch uses B. F. Goodrich tires exclusively.

Speaking of cotton pickers, for example, Donald Schramm says, "B. F. Goodrich Power-Curve tires licked a rugged traction problem on tractors operating backwards with much turning at row ends. They have to bring the pickers out of the fields over rough irrigation checks and road ditches, through wet and muddy spots."

These tires save time because they always give full shoulder-to-shoulder traction. This is the tire that outpulled other leading brands in test after test. That's because of the unusual open-center tread. Each curved cleat has a hard, arrowhead nose that bites into the soil. Because the braced cleats are evenly spaced from shoulder to shoulder, they take a firm grip. Dirt and mud drop out of the open channels as the tire rolls. Every turn of the wheel counts. You get maximum traction.

Schramm trucks and cars roll on BFG tires, too. For their trucks the All-Purpose farm tire is a popular one. This tire with its massive lug-type tread gives off-the-road traction while a riding bar down the center makes it a long-wearing highway tire. Like all BFG truck tires of 8 or more plies, it's protected against bruising by a nylon shock shield.

BFG All-Purpose tires give this truck extra traction when operating cross-country. Tread wears slowly on pavement.

You need full traction from tires when picking cotton. These tractors work faster with BFG Power-Curve tires.

Note the arrowhead cleats of the Power-Curve tires on this butane tractor.

Tubeless Tires seal punctures—protect against blowouts

Three passenger cars are equipped with the new BFG Tubeless Tires for added safety of the family and farm operators. These cars travel over dirt and gravel roads, across fields, through deserts and mountains on both business and pleasure. And Tubeless Tires provide added safety every mile.

Take a tip from successful farm operators such as Schramm Ranch.

Don Schramm (in red sweater) ready to go duck hunting.

Whether your farm is large or small you can get the same time-saving, money-saving advantages and the added safety, too, of B. F. Goodrich tires. See your B. F. Goodrich retailer. You'll find his name in the yellow pages of the phone book under the heading "Tires".

The B. F. Goodrich Company, Akron, Ohio.

RESEARCH KEEPS B.F.Goodrich FIRST IN RUBBER

Wouldn't you like to try Mrs. O'Donell's Prize-Winning

$4,000 Plantation

Make it with Pillsbury's BEST Flour and Homogenized Spry

(you save 20¢... see offer below)

Mrs. O'Donell really hit on a new twist in this shortcake. She began with an old-time biscuit-shortcake recipe. Then she added just a bit of brown sugar to it and chopped pecans for real Southern flavor. She put peaches between the layers and topped them with whipped cream, pecans and still more peaches. Sumptuous—but simple to do.

Don't you want to bake this new kind of shortcake? Then do as Mrs. O'Donell did at the Waldorf—use Pillsbury's Best Flour, and Homogenized Spry. This is the way the recipe was planned, and the only way that success can be promised.

Here is Mrs. O'Donell in her own home, baking her Plantation Peach Shortcake. She made up this easy dessert to please her husband and her two daughters.

Here is the way that Mrs. O'Donell baked her shortcake at the Waldorf. The chopped pecans and brown sugar are baked right into the biscuit layers.

Here she is with her shortcake right after it won the $4,000 prize. Next to her, is Mrs. William Sawdo with her prize winning Chocolate Marble Bars. (Both recipes call for Pillsbury's Best and for Spry.)

FREE! CAKE RECIPE BOOK PLUS COUPONS WORTH **20¢**

Free Cake Recipe Book—11 cake winners from three Pillsbury's Grand National Contests. **Plus 2 coupons worth 20¢**—one coupon good for 10¢ on any size bag of Pillsbury's Best, the other coupon good for 10¢ on a 3 lb. can of Spry. Send a Spry label to Aunt Jenny, Box 2, Dept. S, Minneapolis, Minn.

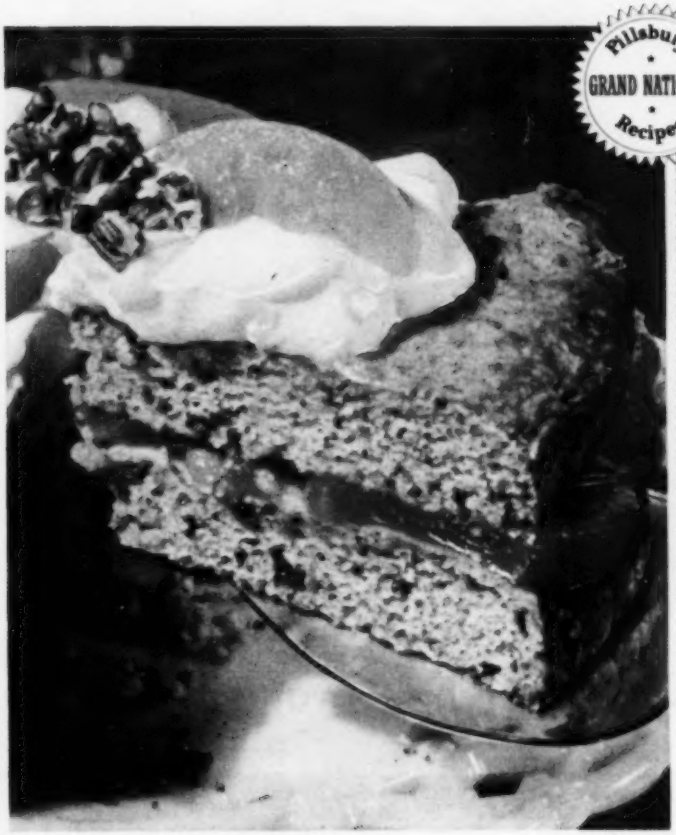
Don't miss out—send in NOW!

HOMOGENIZED Spry

BEST FOR ALL YOU BAKE OR FRY

Recipe in Pillsbury's 3rd Grand National Contest...

Peach Shortcake



Pillsbury • GRAND NATIONAL • Recipes

Picture shows Mrs. B. J. O'Donell, Elkhorn, Wis. She worked out this recipe, in her own kitchen.

THE $4,000 PLANTATION PEACH SHORTCAKE

BAKE at 450° F. for 10 to 12 minutes. SERVES 6.

Sift together. 2 cups sifted **Pillsbury's Best Enriched Flour***
3 teaspoons double-acting **baking powder**
½ teaspoon **salt**

Cut in..... ¼ cup firmly packed **brown sugar**
½ cup **Homogenized Spry** until mixture resembles coarse meal.

Add..... ½ cup chopped **pecans**

Combine.... 1 well-beaten **egg**
⅔ cup **light cream** or top milk; add to flour-shortening mixture, mixing only until all flour is dampened.

Spread..... dough in two well-greased 8-inch round layer cake pans. (For individual shortcakes, turn out dough on well-floured board or pastry cloth; knead a few strokes. Roll to ½-inch thickness. Cut into rounds with floured 3-inch cutter. Place on ungreased baking sheet.)

Bake..... in hot oven (450° F.) 10 to 12 minutes.

Place..... sweetened, sliced **peaches** (fresh, frozen or canned) between layers or split individual shortcakes. Top with sweetened whipped cream and fruit.

*If you use Pillsbury's Best Enriched Self-Rising Flour, omit baking powder and salt.

Perfect results guaranteed only with Pillsbury's Best and Homogenized Spry.

Prize-Winning Recipes now in every bag of

Pillsbury's BEST

The GRAND NATIONAL Flour

State Commander V-8 4-door sedan.

Chrome wheel discs optional at extra cost—decorative and other specifications subject to change without notice.

New 1952 Studebaker styling helps you save gas

TRIM and sleek and graceful, every '52 Studebaker has the right design for real gas saving.

It's a beauty of a car that cuts your driving costs considerably—the newest of the new in riding comfort and handling ease as well as advanced style.

Stop in at your nearby Studebaker dealer's showroom and try out a sprightly new Studebaker Champion in the lowest price field—or a brilliant-performing new 120-horsepower Studebaker Commander V-8.

See Studebaker for '52

©1952 Studebaker, South Bend 27, Indiana, U. S. A.

Painstaking father-and-son teams of craftsmen account for much of the wear resisting soundness of every new Studebaker.

Agriculture's public relations: Can farmers pull together?

. . . and in the right direction? If we expect the public's confidence, we must be worthy of it, with realistic farm programs backed—and believed in—by all producing farmers

By Dr. Karl D. Butler

Is American agriculture prepared to assume a role of highly respected, statesmanlike leadership, or will it follow a course destined to end with its spokesmen joining the many labor leaders, business leaders, and others already peering out of the public's doghouse?

Since the very beginning of our country, farmers have been referred to as "the salt of the earth"—free men who fear no one but God. Although there is little time left, we still have a choice. We can rededicate ourselves as free men and emerge to honored leadership, or we can falter and become despised and hated by our fellow Americans.

Farmers and their organizations spend pennies where labor and industry spend dollars for the dissemination of information or propaganda. Perhaps the farmer should spend more—and what he spends, he should spend more wisely. But regardless of the amount spent, *he cannot talk like a free man until he is one.*

Shortly before the end of the year, I read a news dispatch from Washington headlined "Price Support Program Keeps Farmers Rich." Farmers would wind up 1951 with pockets full of cash, the article stated, adding:

"Farm prices took a nose dive during the first half of the year, skidding nearly 7 percent. But they're back now—due to government price support. That means fat pocketbooks for ruralists and higher food bills for city folks."

Federal farm-income experts were quoted as the source of the information—which prompted one man to write the above article and another in a newspaper office many miles away to headline it. The inference, of course, was that if it were not for price supports, Mrs. Consumer's grocery bill would be a lot lower.

When I showed the article to an urban friend, it brought the immediate and bitter comment—"What's the matter with farmers, anyway? Can't they make a decent living without the government's handing them out a check every month?" Then he added thoughtfully, "We hear a lot about how agriculture needs better public relations, *but are you really doing anything to justify it?*"

I didn't sleep much that night, but I did a lot of thinking about that question.

Down through the years, each major segment of the American economy has had the opportunity to accept national leadership of statesmanlike quality. Business had this chance during the early Depression days and before, and for the most part muffed it, or saw its influence usurped by the government. Labor had its opportunity during World War II, but it also ended up with something considerably less than it sought.

Today, but perhaps not tomorrow, agriculture is in a position to accept national leadership on a statesmanlike level. The big question is: Will agricultural leaders be alert enough to seize the opportunity? And, if they do, *will most farmers stand behind them?*

Because it recognized too late its chance to become a *leader in the public interest*, business is now fumbling, grasping at straws, in an effort to exert more constructive influence on our public life. But the public suspects its motives, despite the vast sums poured into public information, and regardless of the fact that there are many, many outstanding, public-spirited businessmen.

Labor saw *its* opportunity, pressured government to its assistance, used force, and is now spending millions on public-propaganda programs in an effort to convince you and me that it has our interests at heart.

Now, agriculture's time has come.

Today, as never before in the history of this country, American farmers have the opportunity to rise above selfish interests and be statesmen. Such a course points the way to national leadership. It also offers a sound, workable program in the public interest.

I do not believe any thinking farmer, whether he be from among the rank and file, or a so-called agricultural spokesman, will disagree with the premise that a public-relations program for agriculture, or any other enterprise, can be no stronger than the *facts and action on which it is based.*

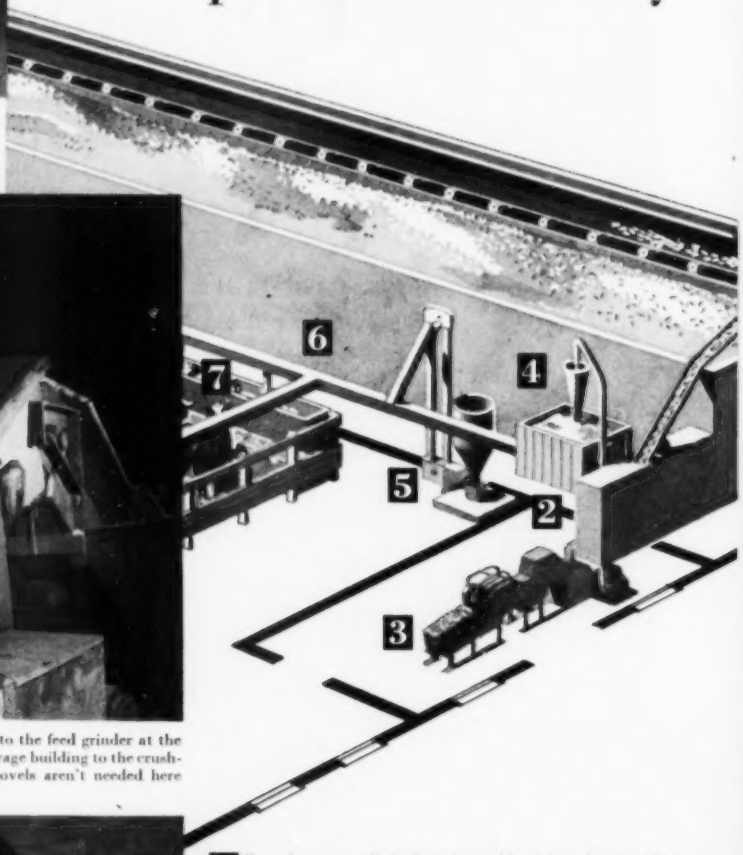
The current battle over subsidies and agricultural-conservation payments is a case in point. Some farmers' organizations have been realistic enough to recognize that these props are not needed, certainly not at the present time, and have voted against both programs in recent months. They have said, in effect, that the producing farmer today does not need either of them; that times are good, and *if we don't discard these economic crutches now, we'll never be rid of them.*

When the Illinois Agricultural [*Turn to page 124*

Beef production is easy

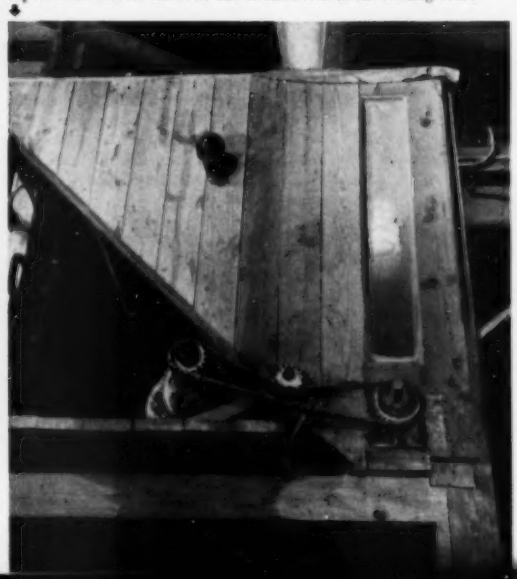
1 The dump at the end of corn-storage building is funnel-shaped and emptied by bucket conveyer. An overhead belt carries corn to bins

2 Crushed corn and shredded alfalfa are fed into the feed grinder at the same time. The corn is shunted from corn-storage building to the crusher and then is spouted into the feed grinder. Shovels aren't needed here



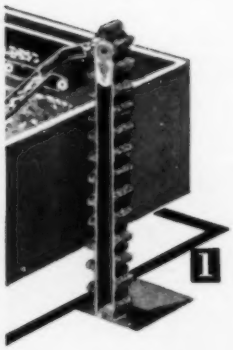
3 Hay is first crushed in the field, then dried with forced air. The bales run through the shredder, consisting of six 24" circular saw blades. After going through the shredder, the hay joins grain in the hammer mill

4 From hammer mill, feed mixture is blown into this overhead bin. The bin tapers at the bottom. An auger in bottom of the tapered bin carries the feed out to the cattle in the feeding court



with push-button feeding

By Delmer Groves



How much time do you spend feeding steers? Count it up. How long would it take you to put hay, grain, and silage in the bunks for 100 head? Chances are it would take a lot longer than the half minute per head spent on the T. R. Schoonover farm, Allen County, Ohio.

Here, 2 men spend exactly 12 minutes per day choring for 182 head of cattle. When 437 Hereford calves fill the barn, 3 men spend an hour each day on chores. Either way it averages *less than a half a minute feeding time per head*. Under usual feeding methods, it would take 4 men something like 5 hours or longer to do the same job.

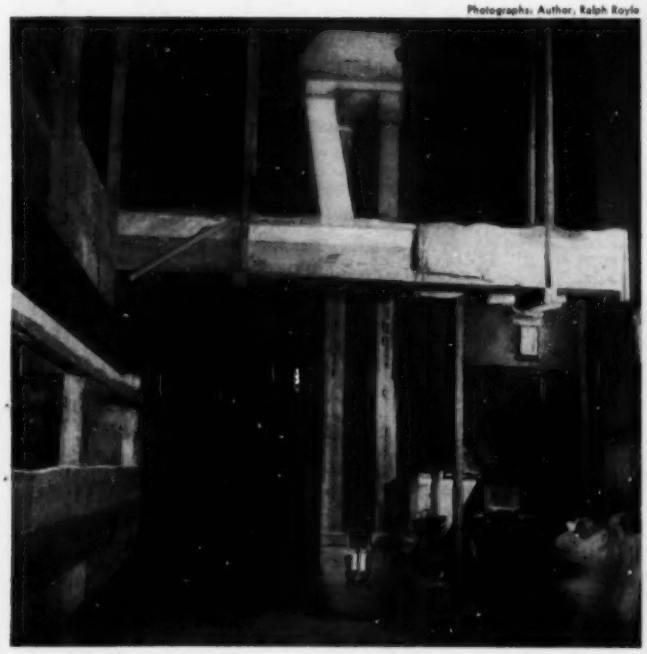
The Schoonover system is set up as a beef-production assembly line. It's a big setup. But some of the ideas used by Schoonover will fit into most any feeding system, regardless of size.

The Schoonover system has two important points: 1. The ration has been simplified to the point where it can all be fed as one mixture. It's all the cattle eat from start to finish. 2. Electricity and machinery do almost all of the feeding work for this big beef producer.

A giant auger system carries all of the feed from the preparation room right out into the feed bunks. *The feed is never touched by hand or scoop shovel*. Here's how the system was built and how it works:

First, a macadam-topped exercise lot 100′ wide was built and fenced along the back side of the barn. Then feed bunks were built along three sides of the large barn. This made the feeding area 80′x123′. Three watering troughs built inside the back wall of the barn can be reached by the cattle from either the feeding barn or the exercise lot. The water runs continuously—it's pumped into a [*Turn to page 104*

Photographs: Author, Ralph Royle



5 Metering device and meter are located right outside the feed room. Extra ingredients are metered into corn-hay mixture here. A square trough suspended from ceiling encloses the auger which carries feed out to the cattle in the lot

6 Close-up of gear and sprocket-chain drive which runs the auger system. Cross auger pulls the feed over, drops it into auger box for left side of cattle shed

7 Feed drops into bunk from auger box through bag chutes. Front of bunk is made of canvas. The cattle move feed into reach by butting the canvas

Fertility

Here's how to gear your soil to "crib-busting" yields — the quickest ways to top bushels per acre. Will commercial nitrogen substitute for legumes? Why you need balanced fertility

Look what happened when fertility got out of balance:

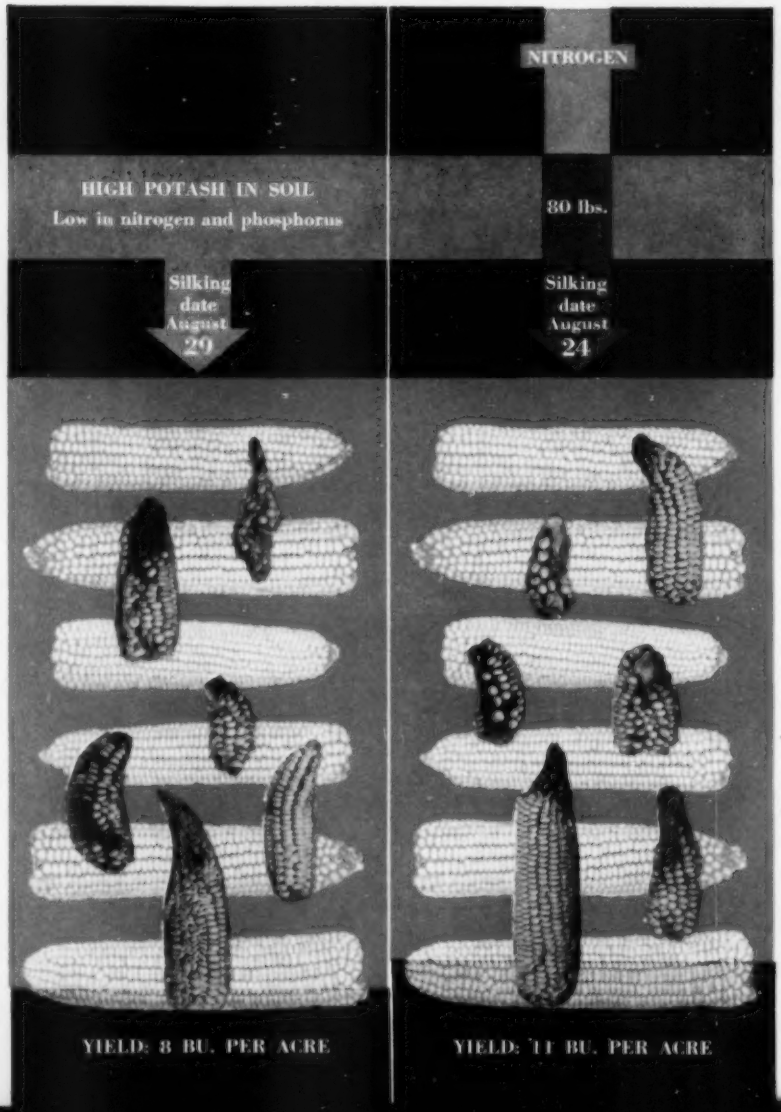
Here is proof that (1) to get the most from fertilizer you can't shortchange any element, and (2) for top yields of sound corn, you must have high fertility—in balance.

This was a test conducted in 1951 by Lloyd Dumenil of Iowa State College. But don't let your yields sag to 8 bushels before you start worrying—it happens just the same whenever fertility gets below the needs of the crop.

The soil here happened to be high in potash—low in phosphorus and nitrogen. Your soil might be some other combination. Notice what happened to the silking dates. Compare also the typical ears.

The pay-off is in what happened to the yields. The first section of the illustration represents the check plot. Then, nitrogen alone made only 3 bushels. Phosphorus alone was carried to a 14-bushel increase by the nitrogen left over from a weak stand of sweet clover the year before. You might then expect nitrogen and phosphorus together to make an additional 17 bushels over the check—actually it was 45.

Fifty-three bushels was not the maximum possible yield. Tilth was poor. More phosphorus and nitrogen might have been used. But it illustrates how lack of one element will keep others from going to work.



By Marvin Anderson and Horace Cheney
Iowa State College

"Joe Miller plows down 800 pounds of 10-10-10 per acre. Then he shoots in 200 pounds of a 3-12-12 at planting time, and tries for 16,000 stalks per acre. He side-dresses with 200 pounds of nitrogen fertilizer at the second cultivation. Joe figures he can raise continuous corn this way—last fall he hauled 125 bushels of corn from each acre, and he maintains that the tilth of his soil is getting better."

Maybe you've read something like this. Disturbing, isn't it?

Joe is a member of a small group of farmers who say that with today's prices, nitrogen fertilizer has outdated legume nitrogen. They say, "If corn is our high-profit crop, why lose time and money growing anything else?"

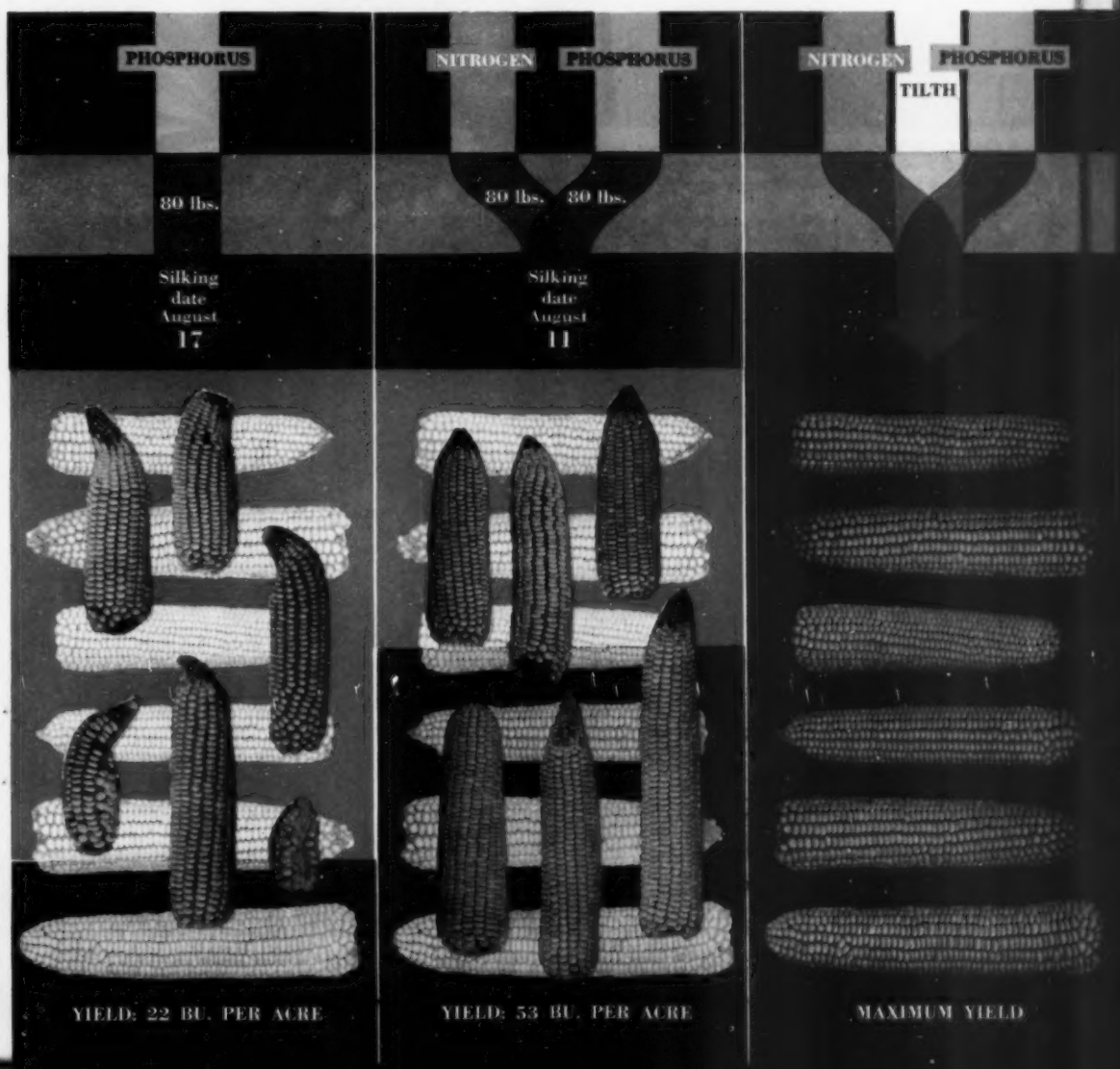
What about this? Can everyone be a Joe Miller? Naturally, *everyone* doesn't want to be! Livestock need roughage. Joe's farm doesn't wash—maybe yours would.

But in the light of some new developments, it's time we took another look at the question: "How often can you grow corn on the same ground?"

You grow corn in soil—but soils are different. They differ in chemical fertility, and they differ in physical condition or tilth. The fertilizer you spread and the legume nitrogen you grow can eliminate any chemical-fertility difference even though your land may sell for $200 an acre and a farm a mile away for $400.

Physical condition. Soils *can* be made alike when it comes to chemical fertility. But physical condition is different—it's harder to change soil tilth.

Poor structure in the surface and tight subsoils are handicaps to corn. You need an abundance of readily decomposable organic matter—thoroughly mixed in the soil—to build or maintain structure. Fibrous-rooted grasses and taprooted legumes do [*Turn to page 114*



Living is an art

By Betty Camp

Tucked away in the potato country about 40 miles north of Brookings, South Dakota, is the little prairie village of Erwin, population 160. The town's wide main street, bordered with fine old shade trees, gives the town a sleepy look.

But nothing could be further from the truth! It takes a mere glance at the pictures to the right and on page 96 to see there's more going on in this farm community than one person can keep up with. Rollicking, homemade fun and creative work that bring rich rewards in fellowship and satisfaction. Old and young working together are making their community an exciting place to live.

The spark behind it all is Alvida Sorenson, a tiny dynamo of energy and enthusiasm whose husband, Hans, operates a large potato farm near town. Her stimulating ideas for recreation and rural arts and crafts continue to snowball, not only around Erwin, but across trade lines into neighboring large communities.

Perhaps it all began back in 1930 when Alvida, then the county home-demonstration leader, started a 4-H group of little girls, ages 8 to 11. She tried to teach them not only homemaking skills, but a pride in the fact they would someday be farm homemakers. How to work and play and share as a family and as a community. The little 'extras' that turn a house into a real home; an appreciation of beauty. One of their first projects was a flower show.

Most of these girls have homes of their own now, but the Junior Miss 4-H'ers are still going strong and their flower show has grown into a yearly project which attracts county-wide attention.

From childhood, Mrs. Sorenson has made the colorful arts and crafts of her native land, Norway, a real part of her life. Because there was [*Turn to page 96*

New interest in an old art. Nancy Lee tries rug weaving

Family crafts nights are now a weekly habit in the homes around Erwin. Families bring their individual crafts interests and share ideas. For Mr. and Mrs. Al Kranzler, Carol Lou, and Stanley, the current project is metalworking

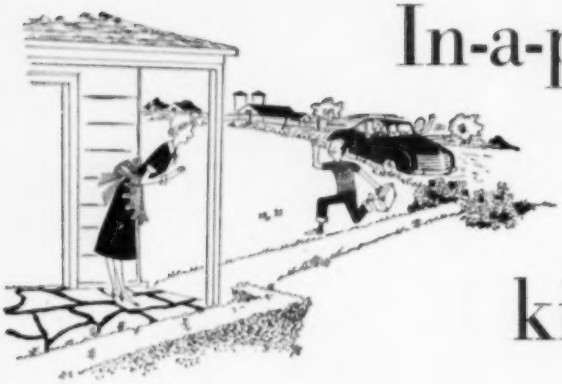
Peasant crafts made by enthusiastic amateurs overflow Sorensons' hobby room. Alvida began teaching crafts to young people. Contagious interest spread to all age groups, into nearby centers

Adept at the delicate art of ceramics are Mrs. Alfred Larson and daughter, Carol Ann. Dolls representing historical periods make conversation pieces and welcome gifts. Some handicrafters try their hands at pottery

Photographs: Pease

The Junior Miss flower show is staged each year by 4-H moppets who invite entries and arrange their miniature displays in an old remodeled barn. Over 100 entries in last year's show brought spectators from miles around

Just for fun it's play night each Saturday in the high school. Girls in gay peasant costumes and their partners in jeans swing to Norwegian dances. Above, Glen Hasselbroek and Betty Sorenson



In-a-pinch meals from your kitchen shelf

By Elizabeth Page

It never seems to fail! On those days when your cupboard is as bare as Old Mother Hubbard's, you manage to get so busy you haven't a few minutes to go to town for groceries. Naturally that's the day some friends or relatives drop in near mealtime, or your husband tells you that the neighbor who has been helping him will be there for dinner.

It's almost impossible to be warmly hospitable when you're caught with your cupboards bare. The best insurance against such a situation is a kitchen shelf stocked with canned and packaged foods that can be prepared in a jiffy. Even if you have a well-stocked food freezer and plenty of home-canned foods, an emergency shelf can supply you with a quick dessert, hot bread, and a main dish.

The meal shown on the opposite page is substantial eating for the hungriest of menfolk. Yet all of the foods, except the squash, came from a can, jar, or package. It isn't what one would call a fancy meal, but it is hearty, good eating, and attractive.

To fix the meal in the picture quickly and efficiently: Prepare the roll mix according to directions on the package and let the dough rise in a warm place. (If you are in a hurry, substitute drop biscuits made from biscuit mix.) Next, fix the piecrust and bake it as directed on the package. Make the filling for the pie (you may use a lemon-pudding mix), and cut the squash into rings. Then take the piecrust from the oven and turn the oven down to 350°. Put the squash in the oven. Pour the filling into the crust and top with meringue. Return the pie to the oven until the meringue is brown (it takes 12 to 15 minutes).

After the squash has baked for 40 minutes, turn the oven up to 400°. Spread the squash with sugar mixture and place the rolls and luncheon meat in the oven. Bake the rolls, meat, and squash at 400° for 15 minutes. While the food is in the oven, fix the salad, relish tray, and garnishes. Heat the corn just before serving.

The Corned-beef and Beef-stew menus suggested below are real "quickies," taking a shorter time to prepare than the meal shown. They taste as good as if you'd slaved over a hot stove all day.

It's a wise homemaker who becomes familiar with the canned and packaged foods in the grocery stores. There's still great satisfaction in developing a meal from scratch, and we don't suggest that commercially prepared foods substitute for the real homemade variety as a daily diet. But partially prepared and ready-to-serve packaged foods have a place in every kitchen. They allow the homemaker to make brief work of cooking, and thus give her more freedom for doing other things. With some complete meals tucked away on an emergency shelf, one never has to make the embarrassing statement, "There isn't a thing for dinner." Instead, one can say, and cheerfully, "Please stay for dinner. It'll be ready in a jiffy."

For recipes and a list of some canned and packaged foods available, turn to page 180. For tips on use and storage of canned and packaged foods, turn to page 192.

Color photograph: Photography, Inc.

Menu suggestions for in-a-pinch meals

Menu in Photograph

Fruit-glazed Luncheon Meat
Pickled Apples
Glazed Squash **Corn Scramble**
Relish Tray
Stuffed-apricot Salad
Cloverleaf Rolls **Butter**
Lemon Meringue Pie

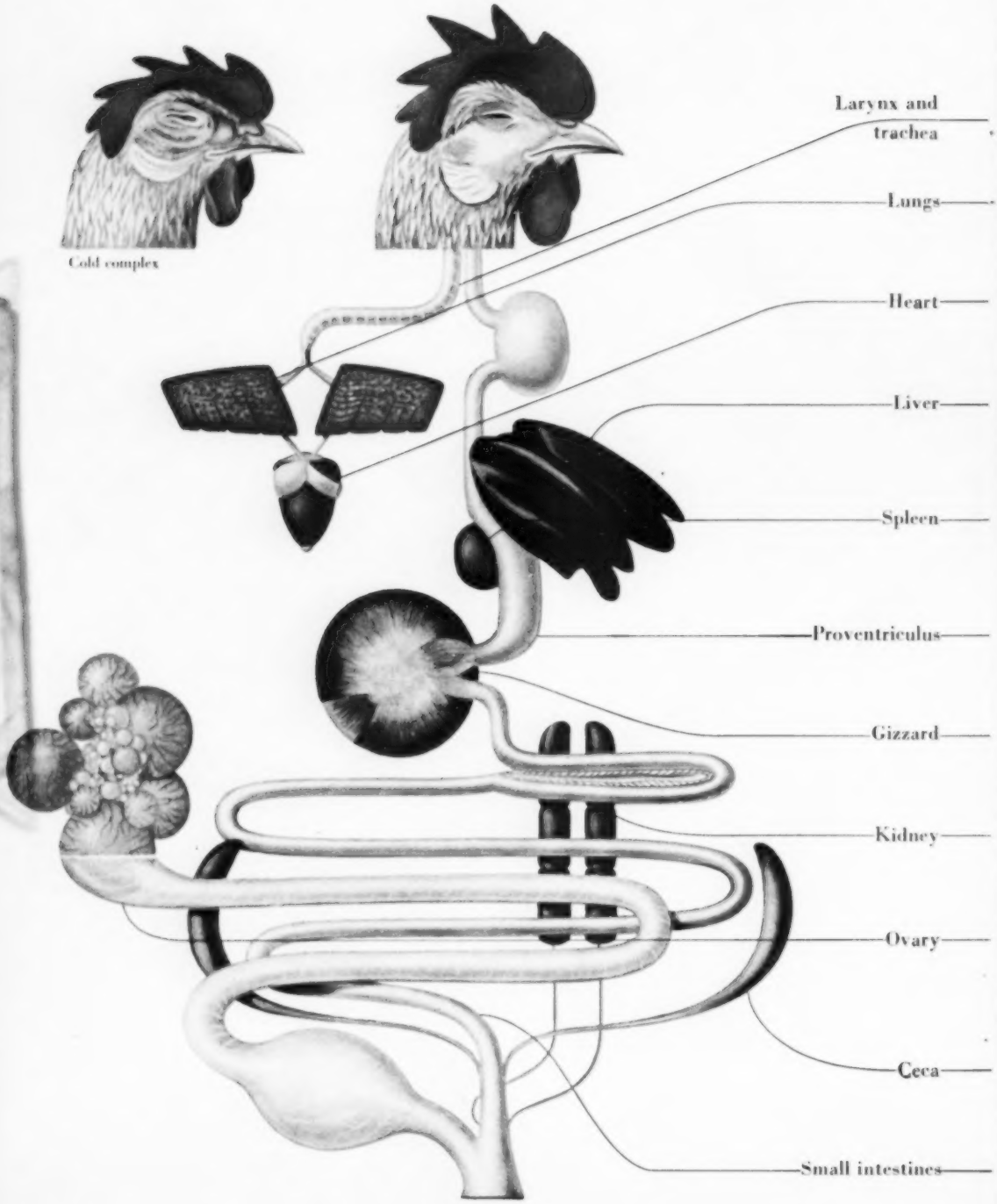
Beef-stew Menu

Beef Stew **Parsley Dumplings**
Asparagus With Almond Butter
Pineapple-Peach Salad
Fruit Dressing
Gingerbread With Whipped Cream

Corned-beef Menu

Corned-beef Hash Roll-up
Mushroom Sauce
Sweet-sour Green Beans
Buttered Whole Beets
Pear Sauce
Chocolate-chip Cookies

What can happen to a hen



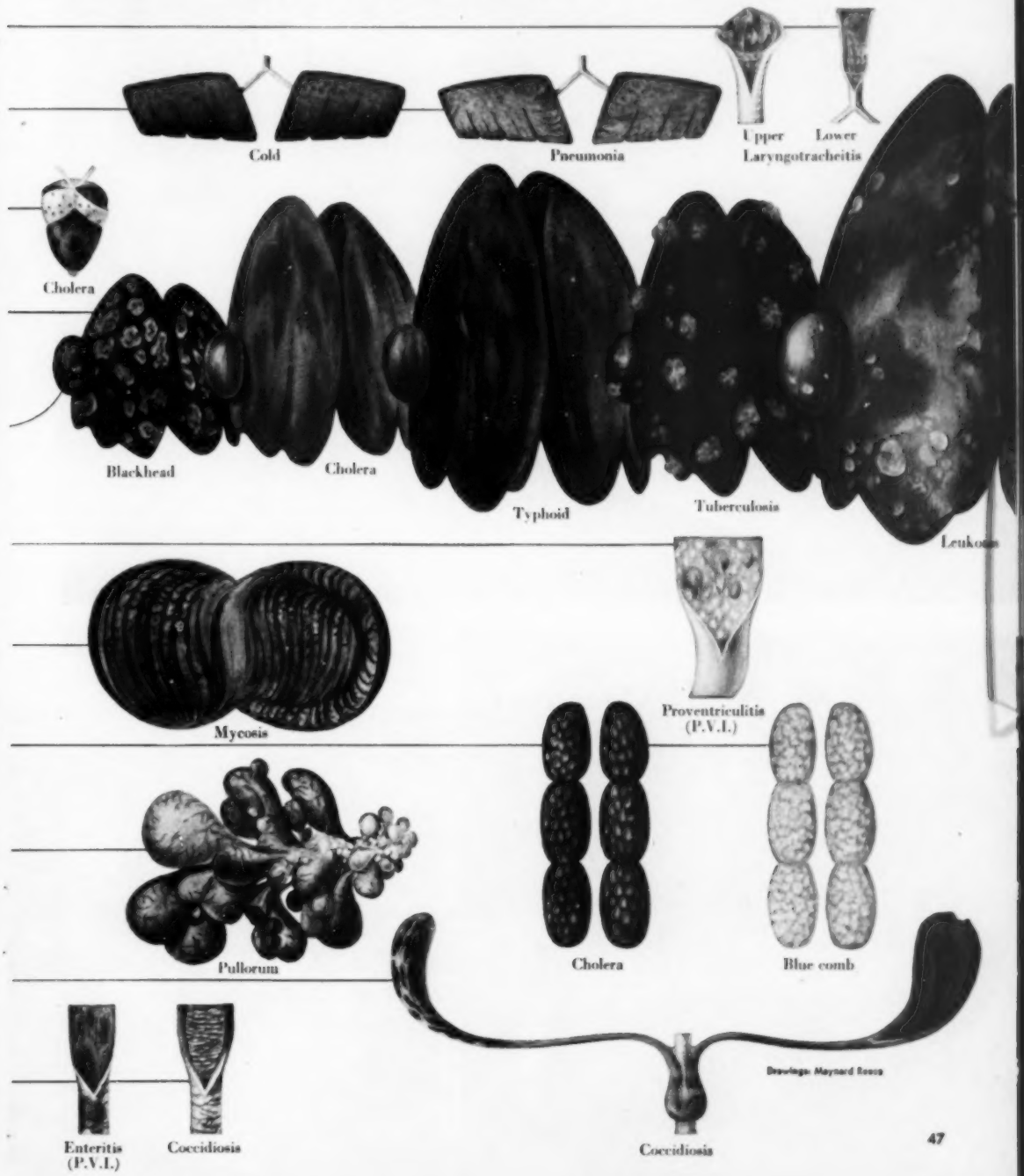
By Don Womacks

Locked up on the inside of a chicken lies a key to poultry health which has been almost entirely overlooked by both veterinarians and poultry-service men. Here, the interior working organs hold the answer to many of today's most perplexing disease problems.

Take a look at these organs. Note the color and size. Do they look like those you see on the opposite page? If so, you can be pretty sure they came from a healthy bird.

However, these same organs also are subject to almost every disease in the book. The drawings below show easily recognized symptoms of most of the common diseases—and their effects on the organs. Note the difference which a disease makes in the color, as well as the size, of the organ. Also, no two diseases attack the same organ in exactly the same way.

Unlike larger farm animals, a chicken can be killed and autopsied, or posted (see page 128 on how to post a chicken) at a very low cost and with relative ease. Follow these posting instructions and compare your findings with drawings below. Then combine the inward symptoms with the outward symptoms and you should be able to put your finger on the disease causing [*Turn to page 170*



Drawings: Maynard Reece

Above kitchen photographed at Wolf & Dessauer Co., by Suter, Hedrich-Blessing

Warmth comes from use of copper, brick, natural wood

Shelves hold collection of pottery pieces, frame window

Bright color provides sparkle and pottery adds the spice

Friendly kitchens

Take a cheery color, a bright fabric, and your prettiest accessories. Add your warmest smile, mix well, and you have the makings of a friendly kitchen

By Jo Mitchell and Joan Scovel

Some of the ingredients for a friendly kitchen are found in every farm home—the pleasant smell of good cooking, the lighthearted step of the homemaker as she works, the assurance of good conversation and hearty laughter.

The other ingredient for a friendly kitchen, the cheery coziness of the room itself, is up to you to create. So perk up *your* kitchen with *your* ideas, to give it the spark of personality that gives a warm welcome to all who enter it.

Look first at the walls. To complement painted or natural wood cabinets, to add warmth and an informal flavor, consider papering the walls with brick-textured or pine-paneled paper. If your kitchen is blessed with high ceilings, do the unusual and paper the ceiling; then use a matching print fabric at the windows. A strong plaid or bold print paper is an effective contrast to the cool, sterile look of steel cabinets. A broad expanse of white cabinets makes a perfect foil for lots of lively color other places.

Your kitchen windows deserve special attention, and you *can* be pretty as well as practical! Have you thought of bamboo blinds, which give a modern look and yet are attractive and livable, or of washable, patterned fabric window shades? When used without curtains, both of these offer a welcome change when summer dust starts to filter into the house. Consider glazed-chintz curtains which shed dust and grease, but at the same time add color and that extra decorative accent every kitchen needs.

Finally, come the accessories—the really personal touches that can make your kitchen different from all others. Accessories complete the "friendly look," and the wonderful thing about them is you needn't buy them new! A good look through your cupboards will undoubtedly bring forth many unexpected, and usable, treasures. For instance, four or five gaily colored plates hung in a group, or copper-bottomed pans lined up over the range, are effective decorators. Corn-stick molds, black iron skillets, and old-fashioned trivets will add a smart accent of dark color. Old kerosene-lamp fixtures painted and remodeled for use as plant brackets are real charmers in country kitchens. Such little but clever touches lend much of the charm and individuality that will make your kitchen the most friendly room in the house. END

Photographs: Suter, Hedrich-Blessing

Rich, age-mellowed wood cabinets, gay curtains, copper accessories ◆

Note pattern of brick and mortar, colorful pottery, L and H hinges ◆

Good storage in small

This is north, and front, view of house planned and built by Morris and Lorene Fox. It is the second house on the Fox farm, Dallas Center, Iowa. The Foxes say they began with "a floor plan perfect for us." The unusual solar way (in photograph, hidden by camera angle) is Mrs. Fox's greenhouse. It was shown in color on the cover of *Successful Farming*, January, 1951, issue

Photographs: Suter, Hedrich-Blessing

These units store all bathroom linens, cleansing supplies; cosmetic, shaving, medicinal items. Cabinets above mirrors store extra supplies. Each cabinet to side of mirror has attached to its door a mirror that folds out to give three-way vision. Plywood hiding pipes is recessed to provide leg room when sitting at lavatory. The vanity seat doubles as a shoeshine box

This unusual and ample towel rack runs from ceiling to top of built-in at foot of bathtub. The rod is chrome finished, with four swinging, horizontal chrome bars spaced on it for towels, washcloths, and hand laundry

Deep-shelved closet, next to bathroom, was planned especially for blankets and bed linens, with ample space provided for storing extra chairs, card tables, and vacuum cleaner

spaces

By Margaret Speers and Jo Barnes

The new Fox home, near Dallas Center, Iowa, is proof that a house can be small, at the same time brimful of convenient storage facilities, yet have ample space for comfortable living. Add to that the element of low cost, and you have something!

The secret to such "almost-miracle building" these days is long, hard, and good planning. "Plus," says Morris Fox, "a certain aptness with a hammer and saw"—the latter being a major factor in keeping hired-labor costs at a minimum.

Morris Fox didn't confine himself to mere home building; he also did all the cabinet and finishing work and made furniture. See "The Foxes built their own two-way tables" on page 98.

Corner area between range and sink is Mrs. Fox's baking center. Her husband enclosed counter-top corner, making it a storage place for food mixer, spices, extracts, measuring cups and spoons, sifters. When doors are opened, as here, all the mixing tools are at hand and easily reached

Below-counter area in baking center. To utilize all the often-wasted corner space, Fox built three drawers on the Lazy-Susan principle (central shaft, ball-bearing arrangement). The balanced drawers swing completely around. Drawers are partitioned to hold silverware, small utensils, staples, mixing bowls, pans, lids, molds, and other equipment

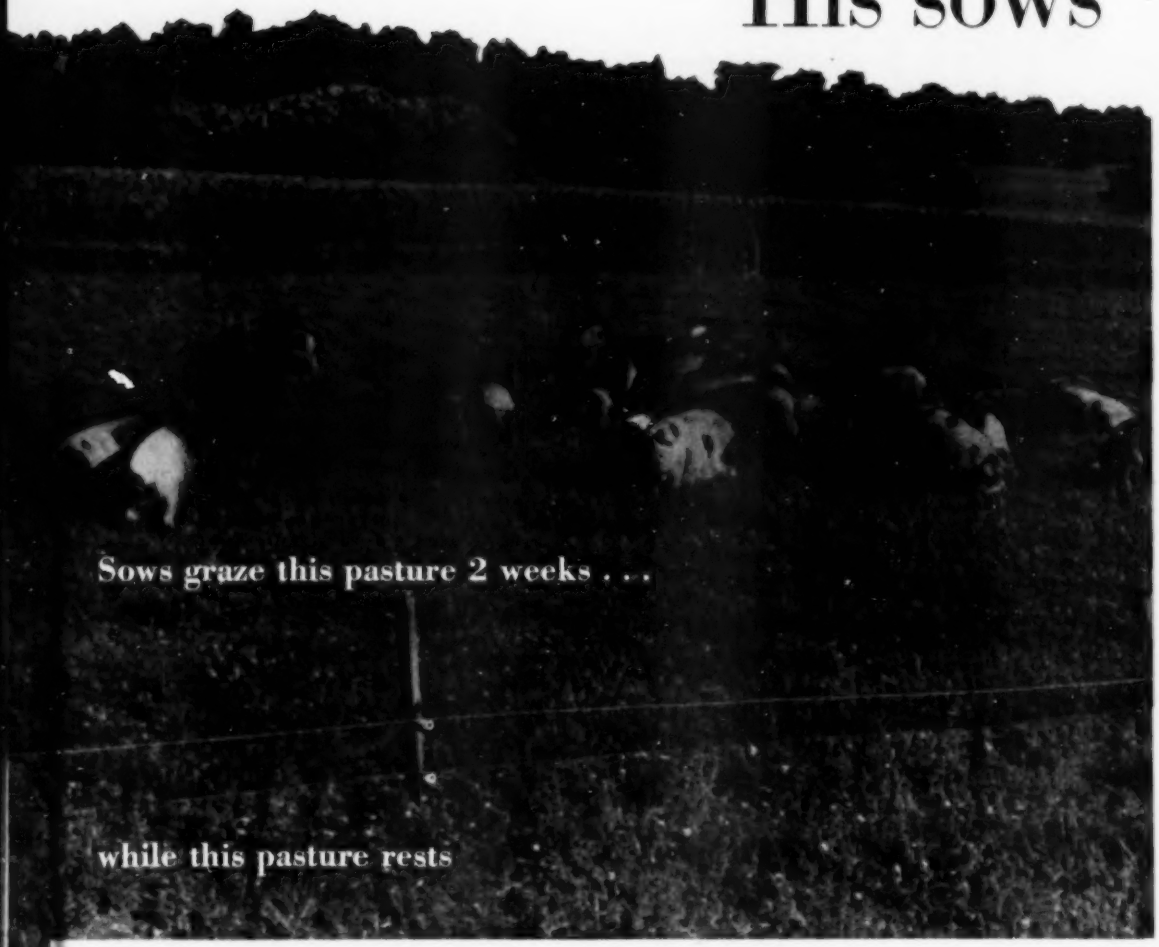
Built-in buffet (left) is handy to both living room and kitchen dinette. Hanging, ventilated breadbox and cake shelf were planned to avoid taking counter space. Counter top is meat- and bread-cutting board; its ledge prevents spillage between the board and equipment

Garbage can swings out from under sink for convenient use. Morris Fox made the rack, which pivots on a $\frac{3}{8}$-inch steel rod

In area adjacent to sink, Mrs. Fox has pull-out rods for towel drying, drawers for towel storage; also an area for tall-can and bottle storage

More on pages 86 and 98

His sows



Photographs: Beeler

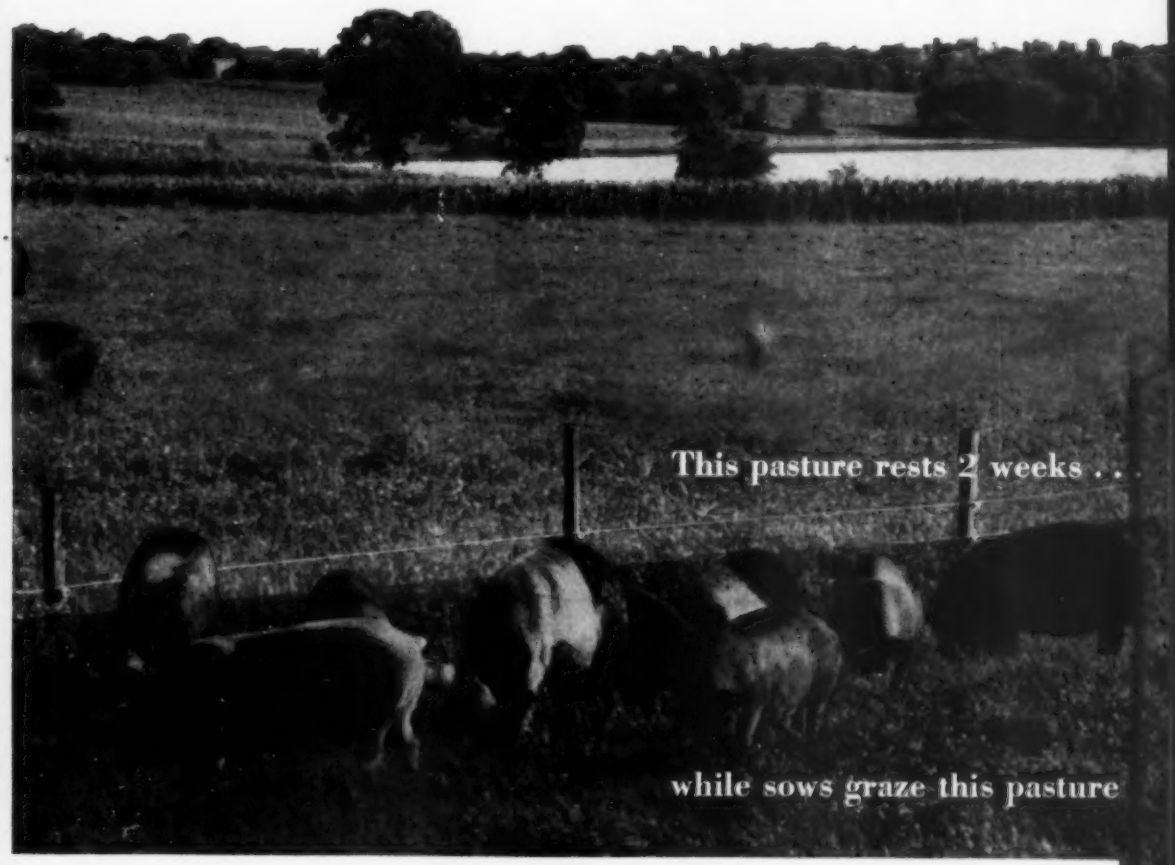
Minerals, salt, and limestone — that's all Haller's sows get besides pasture and water. Each field has mineral box. A feeder is also placed in farrowing pens

Water spray from garden-hose nozzle helps keep sows cool on hot days. Hose is hooked to farm water supply. Layer of cobs keeps down the dust. High roof allows good air circulation

Green Ladino and alfalfa are cut and fed to sows in the farrowing pens for 2 weeks after going off pasture. This helps keep the sows from getting constipated

thrive on grass

By Vernon Schneider



Last fall's soft corn crop has many swine growers in a pinch that hurts—how to stretch corn supplies until new corn is available. This year's spring pig crop is about 9 percent under last year's 61 million head—but it's still one of the largest on record. Corn production has gone down for 3 years, while livestock numbers keep climbing. On top of this, corn reserves are low.

Where does this short corn supply leave us? We can either cut down on the number of hogs on feed, buy corn at an unprofitable price, or stretch our present corn supply. The spring-and-summer pasture season offers the best chance to beat the corn pinch by making top use of high-quality roughage.

Ladino clover opens new field in swine feeding. How far can we go in feeding roughages to hogs? It looks as if we haven't scratched the surface yet. With improved pasture grasses and legumes, such as Ladino clover, coming to the front, we may go further than any of us dream we can.

Here and there we hear of swine growers who are making maximum use of roughages for fattening hogs. They're cutting down grain feeding and keeping the hogs for a longer period—some as long as 10 to 11 months. However, sows seem to be our best bet in making top use of roughages.

We've known for years the value of pasture in raising hogs. It not only cuts down on grain requirements, but both sows and pigs seem to do better on pasture. Most swine growers feed some grain to sows on pasture—very few have made the complete switch from grain to pasture.

Feeds nothing but pasture for 3 months. A good example of how far we can go in feeding pasture to sows is the Weix Pig Hatchery at Sun Prairie, Wisconsin. Last year, according to farm manager Al Haller, *100 bred sows were pastured for a full 3 months on a measured 9.2 acres of Ladino-alfalfa pasture without feeding a pound of feed.* "And to top it off," says [*Turn to page 148*

Picture-pretty windows

By Ann Joselyn

When you built or remodeled the home of your dreams, your plans probably included a picture window. But by now, you may have discovered that the picture window you planned so eagerly is a problem as well as an asset.

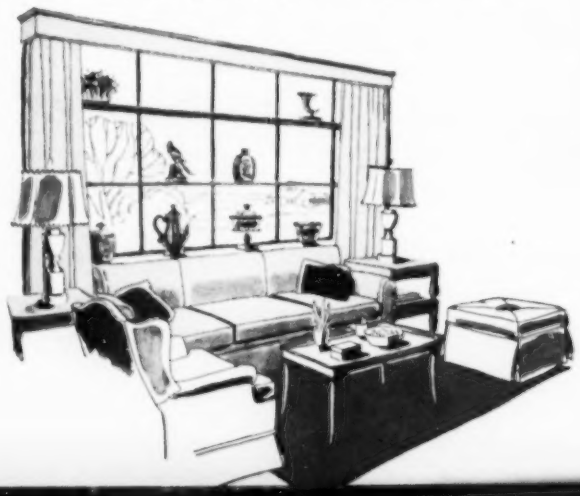
Your particular problem may be glaring sunlight during the morning or afternoon. Or, you may have found that your picture window gives passers-by too good a view of you and your family. Sometimes, due to poor placement, your picture window may have you looking out on the barnyard or busy highway in front of your home, instead of the "picture" it is supposed to show.

These problems, however, should not prevent

Don't be afraid to try something a little out of the ordinary if you want your picture window to be pretty inside and out. Here the space above and below window has been utilized. Wood tones of bookcase are repeated in panel over window

Large-patterned draperies will not overwhelm a good-sized picture window. The matching valance across the top ties the window together into a unit. Floor-to-ceiling draw draperies of sheer material provide good light control. Note how furniture takes advantage of light and view. Plain upholstery is good with the patterned draperies

A paned picture window can be used as a shadow ➔ box by setting objects of simple design on cross supports. Draperies are hung from a tailored cornice board of contrasting color. When unlined draperies are drawn, shadows outline the objects



and Nancy Wilson

your enjoying your picture window as much as you had planned. Well-planned, attractive decorating for your window can solve just about all these problems.

By adapting the window treatment to your style of furnishings, you can make a picture window into the focal center of the room. For instance, two tiers of cafe curtains hung from brass rings give a gay touch to a picture window of a room filled with Early American furniture. The area under and around picture windows provides a wonderful place for built-in storage space. Whatever your problem, your window can be made into a real picture, both inside and out.

Textured draperies of loose-woven casement cloth keep out neighbors' curiosity — but let in lots of light. Instead of using valance, it would be interesting to frame window with small, colorful prints of same size

Built-in cabinets on each side of a picture window form a shallow alcove which lends a dramatic depth to dining room. Sheer glass curtains combined with long draperies and valance give privacy, light control

Apron-length glass curtains filter sunlight so it won't fade furniture which has been built in space under the window. Pattern in ruffled valance is repeated in lamp shade. This style of treatment is ideal for Colonial-style furnishings

Picture windows aren't always limited to the living or dining room of a home. They can be used quite as effectively in the bedroom. Just see how this double pair of tieback Priscilla curtains adds softness to a wide bedroom window

Drawings: Harry Richardson

WIND EROSION

A wind tunnel is telling us how to hold our soils on the High Plains. The fallow wheat farmer who keeps his straw on top of the ground can laugh at soil-gouging April winds

By George D. Johnson

This is the story of soil particles the size of the dot over this "i" and smaller. Get enough of these together—let the wind get above 12 to 14 mph near the surface—and you have wind erosion.

First a sand grain moves—then it bounces. When it hits, it jars loose other particles. Soon, this curious chain reaction has the *whole field* moving.

A windblown grain of sand becomes a spinning bullet which hammers away at weak clods until they are whittled into particles which also join the parade. These particles moving close along the ground do the damage—the dust storm above is just the show.

The fallow wheat area is a setup for wind erosion. You have to grow wheat every other year because there isn't enough water to grow it every year. You've got to keep the weeds down in the off year, and that makes lots of loose soil and buries the residues. Every so often the weather tips too far to the dry side and a wheat crop is lost. Without protection, the topsoil ends up in fence rows, or on the neighbor farm, or a couple of states to the east.

Top men in the study of what makes wind erosion tick are A. W. Zingg and W. S. Chepil at Kansas State College. They've even gone so far as to build a wind tunnel to make their own dust storms at the touch of a button. They can set up their homemade dust storm in a field to see what would happen if a wind came up, or they can bring soil into their laboratory and blow a blast over it.

They set out in 1947 to find the laws of wind erosion from which practical on-the-farm control measures could be designed.

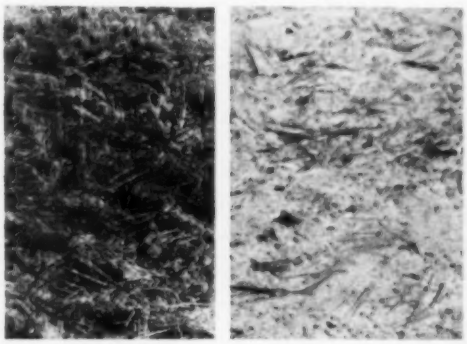
Zingg and Chepil boil wind-erosion control down to this—the basic job is to "keep the particles smaller than ½ millimeter in diameter from moving." As mentioned before, this is about the size of the dot over an "i." These particles will start [*Turn to page 202*

Summer 1952

LIKE THIS **NOT THIS**

Thick windrows will clog machinery set shallow to hold mulch on top. Straw distributed gives the best cover through later weeding operations. Leave the stubble the first winter for the best ground protection in the spring

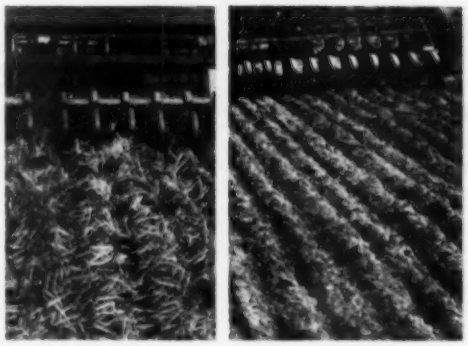
Spring 1953



LIKE THIS **NOT THIS**

Adjust your one-way disc for a shallow cut to leave the most wheat residue on the surface. A subtiller with broad sweeps does a better job here, but except in South, fertilizers must accompany to hold up yields

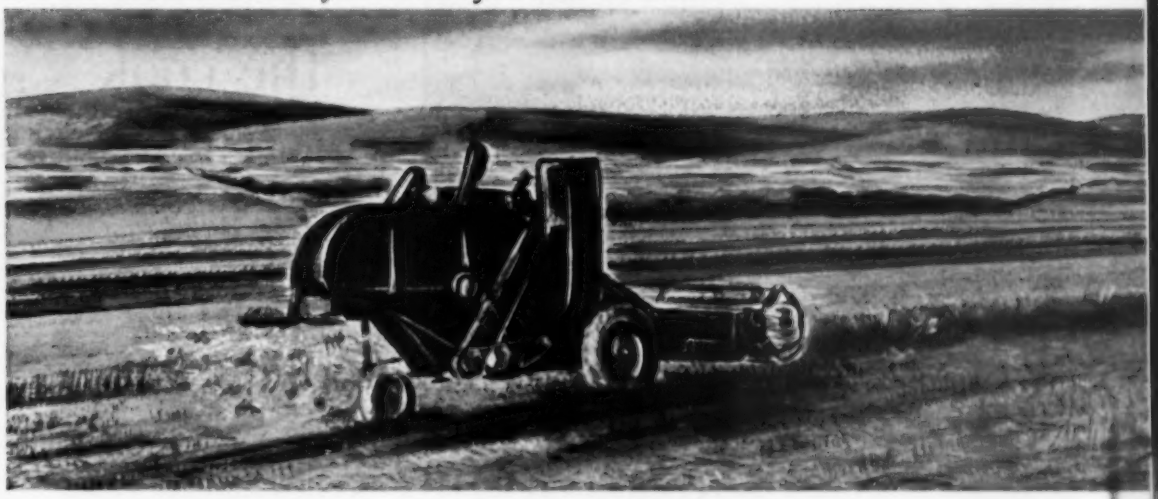
Summer and fall 1953



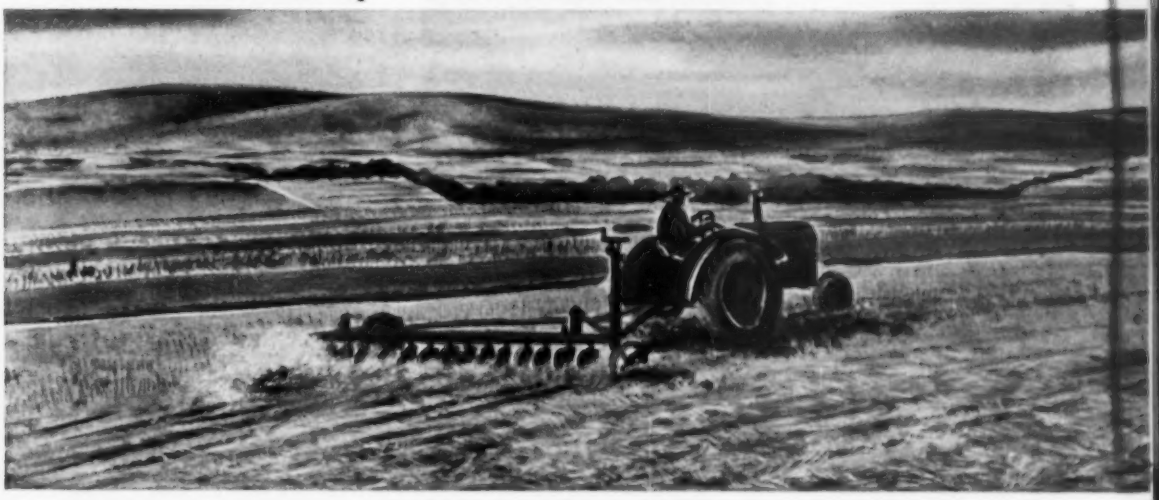
LIKE THIS **NOT THIS**

Wind can't get at the soil on the left. At right, a wheat failure will leave the soil exposed to the winds. A wind-stopping mulch begins at harvest and must guard the soil until another crop takes over two seasons later

Distribute straw—your later job will be easier

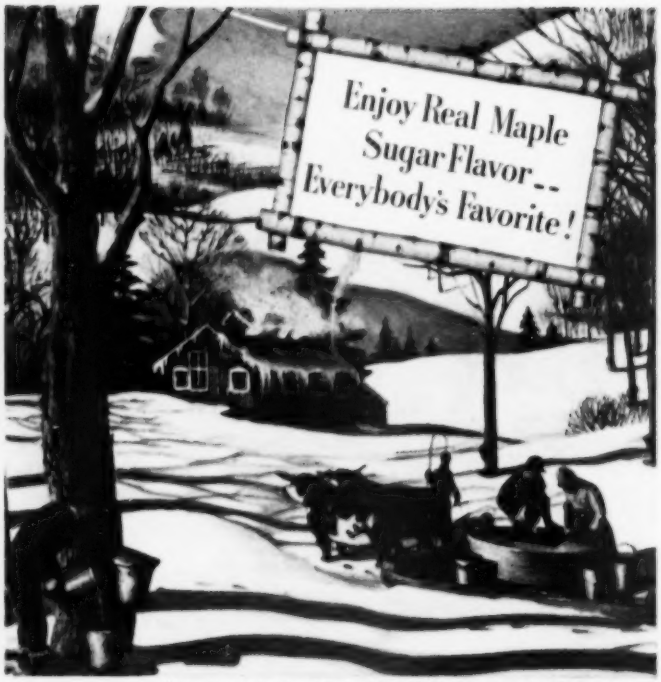


Anchor stubble on top—buried, it can't hold soil



Guard the mulch—it stops wind till crop takes over

Drawings: Maynard Reece



At maple-sugaring time folks head towards the sugar camp for "Sugar-on-snow"

for pancakes and waffles at their best...

Vermont Maid Syrup

Vermont Maid Syrup on pancakes and waffles makes them taste *extra* good. Our skilled blenders select maple sugar that is unusually full-flavored; blend it with cane sugar. This gives you—at moderate cost—real maple sugar flavor that is always the same, always delicious! At your grocer's in attractive glass jugs—24-oz., or 12-oz., size.

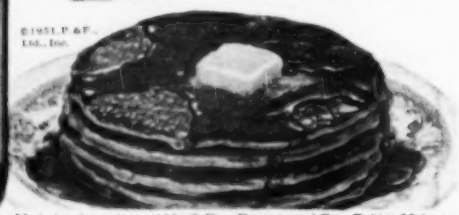
Penick & Ford, Ltd., Inc., Burlington, Vermont

Table Tips...

For French toast that's very French indeed—use half-inch slices of French bread. Dip *quickly* into beaten egg and milk, brown in butter. Serve it with plenty of Vermont Maid Syrup!

Your morning grapefruit will taste delicious if you pour on Vermont Maid Syrup the night before and let it stand overnight in the icebox.

Here's a maple sundae you can make at home! Pour plenty of Vermont Maid Syrup over ice cream. Add chopped nuts—and you'll have a wonderful, maple-sweet treat!



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Made by the makers of My-T-Fine Desserts and Brer Rabbit Molasses.

Tips for the cook

Ideas that add sparkle to meals and make cooking easier, quicker

Make this delectable dessert while rhubarb is plentiful: Follow your favorite recipe for applesauce cake, substituting rhubarb sauce for the applesauce called for in the directions. Cut cake in squares and serve warm with whipped cream.

Know how to make chocolate-coated coconut? It's easy to prepare and is tasty atop ice cream, pudding, and custard desserts. Or use it to dress up a frosted cake or a chiffon pie. To make: Heat 4 ounces semisweet chocolate (or sweet, if you prefer a sweeter topping) over boiling water until partly melted. Remove from water and stir in 1½ cups toasted coconut, mixing until coconut is well coated. Spread on cooky tin and separate shreds with a fork. Chill in refrigerator until chocolate hardens. Store in jar in refrigerator.

Follow these two tips to make dumpling cookery easy and successful. First, when making drop dumplings, scoop the spoon through the hot soup or liquid before dipping the batter. Then each dumpling will slide off the spoon without sticking.

Second, to be assured of dumplings that are light and fluffy, the lid must not be removed from the kettle during the cooking period. In order to watch them cook, choose an ovenproof-glass pie plate that will fit snugly over the top of the kettle when inverted over it. Then you can see the dumplings cook without letting in any air.

Pineapple griddle cakes take no longer to make than plain ones and are so good the year round for breakfast. Add 1 cup drained, crushed pineapple to the regular batter you prepare and bake on ungreased griddle. Serve with lots of butter and sprinkle with brown sugar, or drizzle with warm honey.

Expert cherry-pie bakers invariably heed these two suggestions: Enhance the flavor of the pie by adding ¼ to ½ teaspoon almond extract to the cherries, and enrich the color by adding a few drops of red vegetable coloring before pouring the cherries into the pan.

Man, what chicken! And here's the secret. Cut chicken into serving pieces. Add ½ teaspoon soda to about 2 cups buttermilk and let chicken stand in this mixture overnight in the refrigerator. When ready to fry or smother, drain chicken and pat dry. Roll in seasoned flour and proceed as usual. The buttermilk imparts a delicious flavor.

To give a pork or veal roast an up-to-the-season flavor, try serving it with this flavorful Apple-Rhubarb Sauce. Cook 4 cups diced rhubarb cut in 1-inch pieces, and 3 medium-sized peeled and sliced apples in ¼ cup water until soft—about 25 minutes. Sweeten with 1 cup sugar and serve hot. Add a few drops of red vegetable coloring to point up the color if rhubarb is not pink enough.

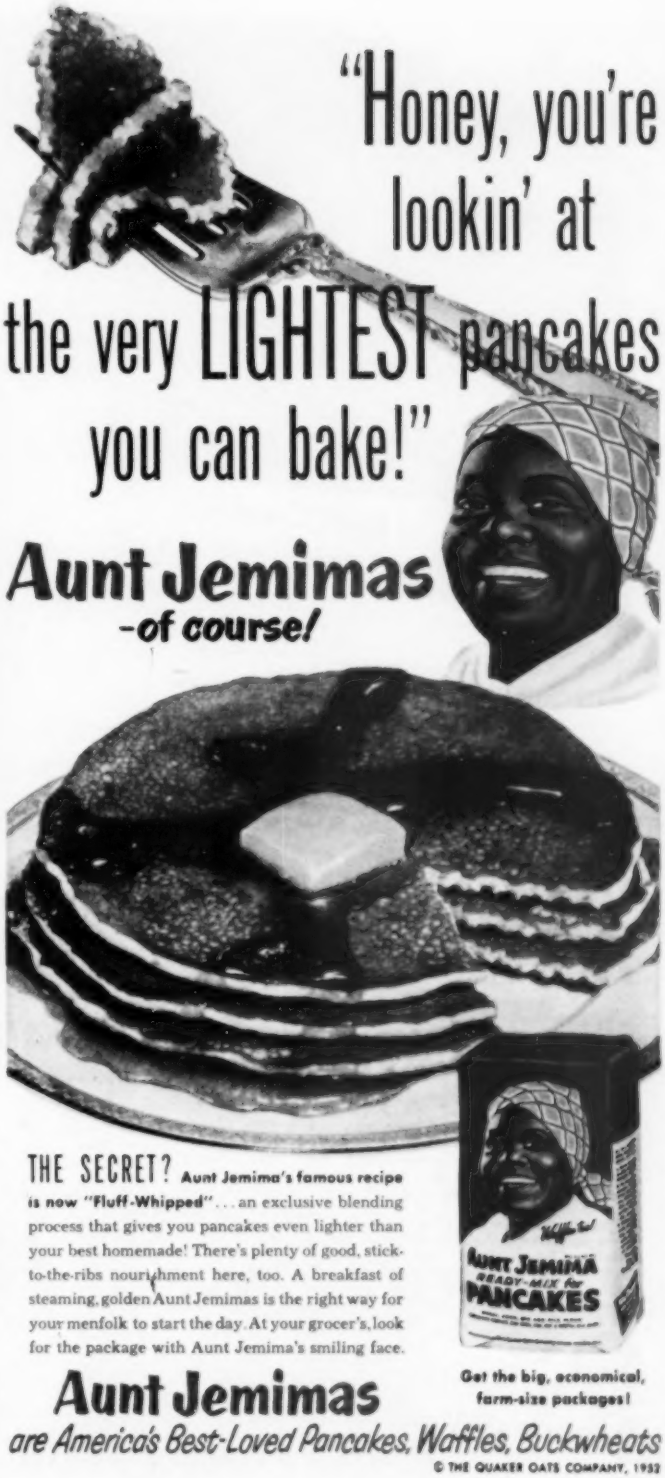
A Big-wheel Salad will click with your family and it's good to serve all year round. Here's how it's made:

1. Separate the celery, wash stalks, and spread stalks with pimiento cream cheese

2. Bunch the celery together, wrap in waxed paper, then chill until cheese is firm

Photographs: Stanley

3. Slice the celery into rounds for serving and arrange rounds on the salad greens. **END**



Betty Crocker's

COLORVISION CAKE

Follow easy directions for yellow two-egg cake printed on Betty Crocker PartyCake Mix package. Just before mixing, all you do is stir three tablespoons of your favorite fruit-flavored Gelatin Dessert *just as it comes from the package* into PartyCake ingredients. (Cake shown is Raspberry.)

COLORVISION ICING

Mix, in top of double boiler
all the remaining fruit-flavored Gelatin Dessert in package
¼ cup egg whites (2 small)
1 cup sugar
⅛ tsp. cream of tartar
¼ cup water

Place over boiling water and beat on high speed of electric mixer or with rotary beater until icing holds stiff peaks. Remove from over boiling water and beat about one minute longer.

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NEW KIND OF CAKE! *Fantastically Easy!*

JUST ADD YOUR FAVORITE FRUIT GELATIN TO THIS PACKAGE

NEW FLAVOR Like ripe, sweet, fresh fruit. Use any *fruit-flavored Gelatin you wish*...raspberry, strawberry, cherry, orange, lemon...*any* delicious flavor you like best. Your cake will taste wonderful—with a tempting fruit flavor.

NEW COLOR Just pick a color from the rainbow, then, make your cake to match. It's as simple as that. Birthdays, parties, anniversaries—your cakes for each happy occasion can be different—each a gloriously different rainbow hue. A festive-looking, fabulous-tasting cake.

NEW GLAMOUR Colorvision Cake is unlike anything you ever baked before. It's so light and fluffy and tender, with a delicate texture like that of fine lace. Yes, and best of all, your cake will stay fresh and moist for *days*.

NEW EASY WAY Just add 3 tablespoons of your favorite fruit-flavored Gelatin—as it comes from the package. Like *all* Betty Crocker cakes, wonderful COLORVISION CAKE from PartyCake Mix has those important advantages of good fresh eggs which you add.

For this recipe use only Betty Crocker **PARTYCAKE MIX**

Here's why

Fresh eggs are extremely important to the success of this wonderful COLORVISION CAKE. Unlike many other leading brands, Betty Crocker PartyCake Mix calls for *fresh* eggs. You add the eggs yourself.

Butter-crunch Ring

Serves 6

Combine **1 cup brown sugar**
2 tablespoons flour
Stir in . . . **½ cup melted butter**
Blend in **¼ cup water**
Place over low heat, stirring constantly, and cook 4 to 5 minutes after mixture starts to boil.
Pour over **5 cups corn flakes**
Mix thoroughly.
Pack into oiled ring mold.
Remove from mold.
Chill; serve filled with **ice cream.**

Bran Corn Bread

Serves 6

Cream . . . **½ cup shortening**
½ cup sugar
Mix in . . . **2 eggs**
Add . . . . . **1 cup milk**
Stir in . . . **1½ cups bran shreds**
Let stand 5 minutes.
Sift together:
1 cup sifted flour
1 tablespoon baking powder
½ teaspoon salt
Stir in . . . **½ cup corn meal**
Add corn-meal mixture to bran mixture.
Spoon batter into 8-inch square pan.
Bake at 400° for 25 minutes.

—Mrs. L. W. Todd, California

Southern Spoon Bread

Serves 6

Combine **2½ cups milk,** scalded
1 cup white corn meal
Stir until smooth.
Add . . . . . **1 teaspoon salt**
Cook over hot water, stirring constantly until thick.
Add . . . . . **1½ tablespoons melted butter**
Cool slightly for 10 minutes.
Add . . . . . **4 egg yolks**
1 teaspoon baking powder
Mix well.
Fold in . . . **4 stiffly beaten egg whites**
Turn into hot, buttered 1½-quart casserole.
Bake at 325° for 60 minutes or until firm with brown crust.

—Mrs. Clarence Stumpfig, Michigan

Cheese makes the dish

It's the cheese in these hearty main dishes that will put them high on your family's request list

Italian Casserole

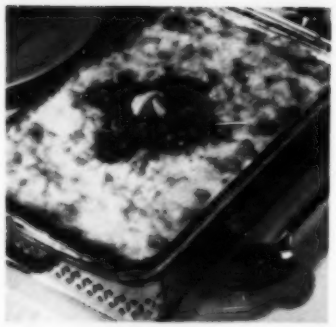
Serves 4

Cook . . . . . **4 ounces elbow spaghetti** in **boiling, salted water; drain**
Brown . . . **½ pound sausage links**
Combine with spaghetti:
1 egg
1 cup shredded American cheese
2 tablespoons corn liquid
Pour into greased 8x1½-inch round baking dish.
Arrange on bottom and side of dish.
Alternate layers of sausage with:
1 cup corn, drained
Add . . . . . **1 cup tomato sauce**
Add remaining sausages.
Top with **2 tablespoons grated Parmesan cheese**
Bake at 350° for 35 minutes.

Green Beans and Ham in Cheese Sauce

Serves 4

Heat . . . . . **4 cups canned French-style green beans** in bean liquid
Melt . . . . . **¼ cup butter**
Stir in . . . **¼ cup all-purpose flour**
Add . . . . . **1 cup milk** slowly
Cook until thickened.
Add . . . . . **½ teaspoon nutmeg**
½ teaspoon salt
⅛ teaspoon pepper
1 cup grated American cheese
Stir until cheese is melted.
Drain green beans; add to cheese sauce.
Turn into buttered 1½-quart casserole.
Top with **½ cup coarsely cubed ham**
Bake at 350° for 20 minutes.



Golden Cheese and Rice

Serves 4

Combine 1½ cups grated American cheese
2 cups cooked rice (½ cup uncooked rice)
2 cups shredded carrots
2 beaten eggs
1½ teaspoons salt
⅛ teaspoon pepper
2 tablespoons minced onion
½ cup milk
Pour into greased 6x10-inch baking dish.
Top with ½ cup grated American cheese
Bake at 350° for 50 minutes.
—*Mrs. L. W. Foubert, Iowa*

Cream of Cheese Soup

Serves 4

Cook ½ cup grated carrots
½ cup chopped celery in
1 cup boiling water until tender
Saute 2 tablespoons chopped onion in
¼ cup butter until golden
Stir in 6 tablespoons flour
Add 2 cups milk
2 cups chicken bouillon
Cook over hot water until thickened, stirring constantly.
Add ½ pound sharp processed cheese, diced
Stir to blend well.
Add above vegetables and cooking water.
Serve with croutons.

Easy Macaroni and Cheese

Serves 4

Cook 7-ounce package macaroni in boiling, salted water
Drain and rinse.
Combine 1 teaspoon grated onion
½ cup milk
10½- or 11-ounce can cream of mushroom soup
½ teaspoon salt
⅛ teaspoon pepper
Alternate layers of macaroni, soup, and ½ pound American cheese, cubed, in greased 1½-quart baking dish
Bake at 350° for 45 minutes.

Good eating with cereal

Easy to make, wonderful—that's the verdict on these recipes enhanced by the flavor of cereal

Oatmeal-Raisin Loaf

Makes an 8½x4½-inch loaf

Sift together:
1½ cups sifted flour
2 teaspoons baking powder
½ teaspoon soda
½ cup sugar
½ teaspoon salt
1 teaspoon cinnamon
Mix in 1 cup quick-cooking oats
1 well-beaten egg
2 tablespoons melted shortening
Juice of 1 orange plus water to make 1 cup
Fold in 1 cup seedless raisins
Pour into greased 8½x4½x2½-inch loaf pan.
Bake at 325° for 1 hour; cool.
—*Mrs. Walter A. Hoffman, Illinois*

Frozen Lemon Pie

Serves 6

Mix 1¼ cups finely crushed corn flakes with
¼ cup melted butter
Press 1 cup of corn-flake mixture into bottom of refrigerator tray.
Combine ⅔ cup sugar
⅛ teaspoon salt
3 slightly beaten egg yolks
¼ cup lemon juice
1 tablespoon grated lemon rind
Stir over boiling water till thickened.
Beat 3 egg whites into peaks
Fold into chilled lemon mixture.
Fold in 1 cup whipped cream
Pour into refrigerator tray.
Top with crumbs; freeze till firm.

So easy to use! New, de luxe G-E "Speed Cooking" Range!

See the G-E "Super Stratoliner" and *all* the new "Speed Cooking" beauties. There's a model for every need—at your G-E retailer's. (Consult classified phone book.) General Electric Company, Louisville 2, Kentucky.

New 1952 "Super Stratoliner"—with the famous All-Calrod® Tripl-Oven!

The sparkling new "Super Stratoliner" brings you all the heavenly cleanliness, the speed, the wonderful meals that G-E "Speed Cooking" is famous for—plus a line-up of features that'll make meal-getting *so easy*. Look . . .

★ **All-Calrod bake and broil units** — superfast Calrod surface units, and an Extra-Hi-Speed utility unit.

★ **Warming Compartment** — separate drawer to keep dishes hot.

★ **Built-in Pressure Cooker** saves ⅔ cooking time. Non-pressure top for thrifty deep-well meals. Deep-well unit whisks to the top when needed.

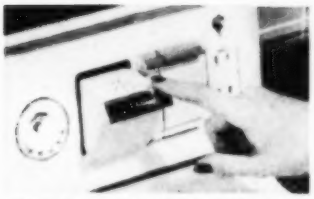
Specifications subject to change without notice.

Prices on G-E "Speed Cooking" Ranges begin at $209.95. Average operating cost about $2.00 a month.

(National average rates.)

AUTOMATIC ELECTRIC

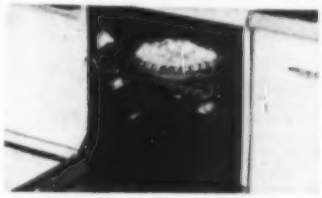
"SPEED COOKING" RANGES



NEW! Built-in Condiment Set that keeps salt at just the right pouring temperature, even in damp weather. No more sticky lumps!

EASY! Just push a button for the heat you want, from warm to speed-high. Tel-A-Cook Lights tell you exactly what unit is on—and at what heat.

Mammoth Master Oven—big enough to hold a 30-lb turkey. Includes Superfast Broiler, waist-high, that gives wonderful charcoal-type broiling flavor. All-Calrod bake and broil units.



Speed Oven. Big oven converts simply into smaller Speed Oven, for quick, economical, one-shelf baking.

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Hen-house cleaning made easy

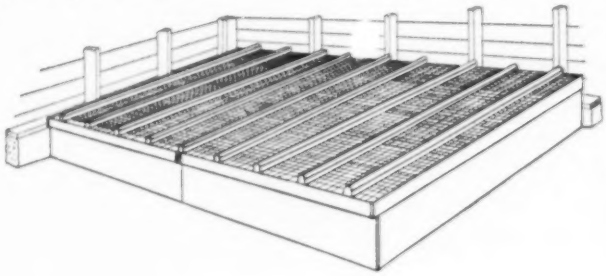
Droppings pits are truly laborsavers. When Otis Hickman, Hartville, Missouri, had droppings boards in his 50'x30' laying house, he spent 30 minutes each morning cleaning them. He switched to pits, and now cleans them two or three times a year.

Many other Missouri poultry raisers have made similar change-overs, and report a big saving in time and labor. Pits also aid in sanitation in the laying house and result in cleaner eggs, too.

The pits are easy to build. They don't require a great deal of material other than wire. Many poultry raisers build the pits from material salvaged when droppings boards are removed.

To support the wire and roosts, use 2x4s on the front and rear, and 1x4s on the sides. Cleat a 1x12 board to the frame, closing in the front. A short 2x4 piece nailed to the studs provides support for the back side of the frame.

Use 1½" wire netting or 1"x2" welded wire to cover the frame. Make the roosts out of 2x2 pieces. Building details of the droppings pit are shown in the drawing below.—*E. B. Winner.*



Practical hog house

When Harper and Waldorf of Vinton, Iowa, built their hog house, they added useful, low-cost features.

Hinged, wooden flaps on the south admit sunlight and air. Windows between flaps let in light when the flaps are closed. Small hog doors (they slide up and down) can be partly raised creep-fashion so only small pigs can get through. (Note picture at left.)

The house is 8'x100', and is divided into 15 farrowing pens, each 6'x8'. A feed room has been built at the west end. Hinged gates are used for partitions on the 12' concrete feeding floor.—*Bertram H. Kruse.*

SPARX

The SAFE Replacement for Sow's Milk

During and After Weaning

When to feed SPARX

- To keep pigs eating and keep them gaining right through weaning.
- When sows dry up, are sick, or poor milkers.
- To cushion shock of castration or vaccination.
- When you're shooting for 5-6 months marketing time.
- When you want hogs to look best in show ring.

Helps Prevent Weaning Set-Backs

Sparx is actually so much like sow's milk, baby pigs hardly miss their mother. The vital buttermilk factors in Sparx just naturally keep nourishment at peak-flow level! Keeps pigs right on eating . . . right on gaining . . . right through weaning!

Wean Up to 50% Heavier Pigs!

Yes, you can actually wean pigs up to 50% heavier than the national average when you feed Sparx! Its rich evaporated buttermilk base fortified with vitamins and energy factors, helps retain baby fat and eliminate growth "stall." That's why you can expect to market even runts, orphans, and slow-growers within 6 months with the rest of your herd.

Easy to Feed

Just mix Sparx with water and pour in trough for a drink baby pigs love! Start feeding Sparx as a milk supplement at 4 weeks when sow's milk normally slackens. Feed until 12 weeks to continue peak-flow nourishment! (For big litters or uneven herds, start to feed Sparx at 3 weeks. In emergencies, start at 1 week.) For uniform shoats averaging up to 75 pounds in 90 days . . . get a drum or barrel of Sparx from your feed dealer today!

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Anhydrous ammonia paid off

By John E. Rydel

Anhydrous ammonia paid back $2.65 on every $1 invested on 46 test plots of corn totaling 269 acres put out in 1951 by the Waukee, Iowa, High School Vocational Agriculture Department. The average increase in yield was 22.8 bushels of corn per acre.

On the 18 farms where tests were made, the corn was 1.77 percent drier, and 13.88 percent more was standing than in the untreated sections of the fields.

It is interesting to compare the results at different degrees of soil fertility. Where the check yields were 40 bushels or less, the anhydrous ammonia increased yields as follows:

Application rate	*Yield increase*
40 pounds N	7.3 bushels
60 pounds N	22.3 bushels
80 pounds N	27.3 bushels

When the check yields were from 40 to 70 bushels, the ammonia gave the following increases:

Application rate	*Yield increase*
60 pounds N	22.3 bushels
80 pounds N	26.0 bushels

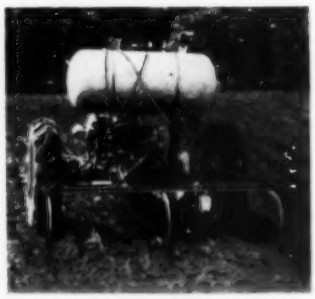
And when the checks were over 70 bushels:

Application rate	*Yield increase*
60 pounds N	12.7 bushels
80 pounds N	15.4 bushels

Anhydrous ammonia is an agricultural grade of ammonia containing 82½ pounds of nitrogen per 100 pounds of ammonia. At normal temperatures and atmospheric pressure, anhydrous ammonia is a gas. To be changed to a liquid and stored, anhydrous ammonia must be put under pressure.

The following means of application of the agricultural ammonia was used in these tests:

The liquid was removed from the storage tanks under pressure and transferred



Here's the 3-shoe anhydrous-ammonia applicator used in the tests described above

to a tank located on the rear of the tractor. The tank was kept under pressure through the use of a positive-displacement pump driven by a drive chain from the rear wheel of the tractor. This pump also regulated the rate of application of anhydrous ammonia to the field.

From the pump the liquid was carried by small synthetic rubber tubes to the back of a narrow cultivator shoe. This shoe ran under the ground 4 to 6 inches. The tube had a narrow opening at its end where the anhydrous ammonia came out and was deposited in the ground.

As soon as agricultural ammonia is let out into the soil, it combines with water and is available to the plants. Hence, as long as anhydrous ammonia is put in the soil 4 to 6 inches deep, there is very little if any loss by dispersement into the air.

The anhydrous ammonia application in the Waukee community was done between the second and third cultivation of corn. A 3-shoe applicator was used to apply it to the center of each row.

The corn-yield results were checked by the Waukee vocational-agriculture classes. All yields were computed on a 15-percent moisture basis.

70-year-old weed seeds still grow

How long will seeds remain dormant in the soil and yet germinate when exposed to favorable conditions? That question bothered Dr. W. J. Beal, Michigan State College botany professor, back in 1879. So he began an experiment to find out.

He put 50 freshly grown seeds from each of 20 different species, well mixed with sand, into a bottle. He left the bottles uncorked and put them in a row slanting diagonally 18 inches deep in sandy soil under the Michigan State College campus. His original plan was to unearth a bottle of the 1,000 seeds every 5 years and germinate the seeds. In 1920 the schedule was changed to every 10 years to prolong the length of the experiment.

In 1950 the eleventh bottle was dug up, and the seeds were transferred without delay to a flat in which the soil had been sterilized. The experiment was conducted under ordinary greenhouse conditions of temperature and moisture.

Just 1 week after planting, 32 seedlings had appeared from the 70-year-old seeds. The tallest seedling was about 1 inch high. During the next 2 weeks 15 more seedlings appeared, making a total of 47 seeds which grew from the 1,000 in the bottle. Only 3 varieties were included, however, in these 47. They were curled dock, common evening primrose, and moth mullein.

Prof. H. T. Darlington, of the Michigan State College Botany Department, began reporting on the seeds in 1915. Although he has since retired from the faculty, he continues his work with the Beal seeds.

Nine bottles remain to be dug up—one each 10 years. Nine bottles later, in the year 2040, the experiment will be completed and the final tabulation made.

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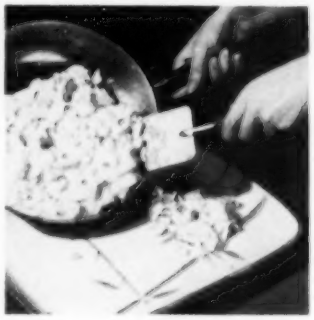
Eggs—for a sunny beginning



Start each new day in a new way, with one of these egg dishes to brighten breakfast

Chances are the man in your house likes his eggs for breakfast. Maybe, too, he's pretty set on "sunny side up" or two "over easy." But you can change his mind with these zesty egg dishes that present the time-honored breakfast food in a new light.

Whichever recipe you're following, remember the cardinal rule of egg cookery: Keep the temperature low. You'll be assured of uniformly tender and attractive egg dishes.

Bacon-Hominy Scramble
Serves 4

Fry . . . . . **4 slices bacon,** chopped
Remove from skillet.
Brown in bacon drippings:
1 No. 2 can hominy (2½ cups)
Add . . . . **4 eggs,** well beaten
Cook until eggs are just set.
Add . . . . **1 teaspoon salt**
½ teaspoon pepper
bacon

Eggs Piquant
Serves 6

Simmer . . **1 clove garlic,** minced, in
2 tablespoons hot salad oil for 10 minutes.
Remove garlic.
Add . . . . **1½ cups water**
¼ cup chili sauce
1 teaspoon Worcestershire sauce
½ teaspoon salt
¼ teaspoon paprika
Bring mixture to a boil; reduce heat.
Slip into sauce:
6 eggs
Poach until eggs are set, about 4 minutes.
Remove eggs.
Serve eggs on **hot buttered toast**
Pour over each egg:
1 tablespoon sauce.

Eggs Commodore

Serves 6

Remove crusts and a 1-inch circle from centers of:
6 slices bread
Fry in **hot butter,** turning once
Fill centers with:
½ cup mashed liver sausage
Top with **6 poached eggs**
Pour Bechamel Sauce (recipe follows) over all:
Blend **3 tablespoons melted butter** or **margarine**
¼ cup flour
Mix together:
1 bouillon cube
1 cup boiling water
Add hot stock gradually to butter and flour.
Season with:
½ teaspoon salt
⅛ teaspoon pepper
few grains paprika
Add **¾ cup light cream**
Cook over low heat, stirring constantly until thick and smooth.
Pour sauce over poached eggs on toast.
Garnish with **paprika** and **parsley.**

Cheese Omelet

Serves 4

Mix in top of double boiler:
¼ pound grated cheese
¼ cup milk
Cook and stir over simmering water until cheese is melted.
Add **½ teaspoon salt** to
4 egg whites
Beat until egg whites are shiny and stand in peaks.
Add **⅛ teaspoon pepper** to
4 egg yolks
Beat until thick and lemon-colored.
Pour cheese sauce into egg yolks, stirring constantly.
Pour yolk mixture over egg whites, folding the mixture as you pour.
Heat in 10-inch skillet:
3 tablespoons butter or **margarine**
Pour in omelet mixture.
Reduce heat.
Make the surface of the omelet level.
Cook slowly until puffy and slightly brown on the bottom, about 5 minutes.
Place in 325° oven.
Bake until knife inserted in center comes out clean, 12 to 15 minutes. **END**

Redbird

A bit of red in a bramblebush,
Against a sky of gray,
He sings as though his song alone
Could change this cheerless day.

A lone bird in a maze of twigs;
He plays an aerial game;
Flickering from bush to tree,
Like a restless flame.

A bit of red in a bramblebush;
He sings, despite the rain;
And suddenly, the whole gray world
Is bright again!

—*Edith Grames*

This easy-to-bake cake leads a double life . . . delighting your family, baked just plain—impressing company, swirled in chocolate. Either way, it's budget-right, taking just ONE egg. Either way, it's luscious-light, thanks to Double-Acting CALUMET Baking Powder.

Bake It Plain . . . Or Make It Marble

"Double Delight" Loaf Cake

BASIC RECIPE:

2 cups sifted Swans Down Cake Flour
2 teaspoons Calumet Baking Powder
¾ teaspoon salt
½ cup shortening
1 cup sugar
1 egg, unbeaten
1 cup milk minus 2 tablespoons
1 teaspoon vanilla

Note: This two-way recipe, perfected for you in CALUMET's home kitchen, assures a cloud-light cake, when followed *exactly*. For CALUMET Baking Powder gives Double-Action and Double-Dependability. CALUMET supplies just the *right* amount of leavening, first in the mixing bowl and then in the oven's heat . . . guarding against baking failure. No wonder more published recipes call for CALUMET than any other baking powder. No wonder twice as many women use CALUMET as any other brand for cakes, biscuits, and favorite, home-baked treats. It's America's Quality baking powder!

Method. Sift flour once, measure, add CALUMET Baking Powder and salt, and sift together three times. Cream shortening, add sugar gradually, and cream together until light and fluffy. Add egg and beat thoroughly. Then add flour, alternately with milk, a small amount at a time, beating after each addition until smooth. Add vanilla; blend.

Baking. Turn batter into 10x5x3-inch loaf pan, lined on bottom with paper. Bake in moderate oven (350°F.) 1 hour, or until done. Frost with your favorite chocolate frosting.

CHOCOLATE MARBLE VARIATION

To one-fourth of the basic recipe, add a mixture of 1 square Baker's Unsweetened Chocolate, melted, 2 tablespoons water, 1 tablespoon sugar, and ¼ teaspoon soda. Put large spoonfuls of batter into pan, alternating plain and chocolate mixtures. Then, with a knife, cut through batter once in a wide zigzag course. Bake as above.

A Product of General Foods

CALUMET BAKING POWDER
DOUBLE-ACTING

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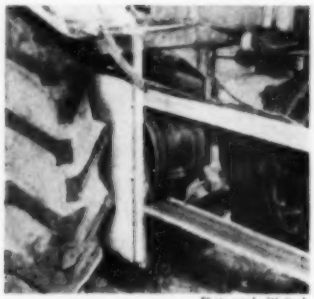


Photograph: Wettach

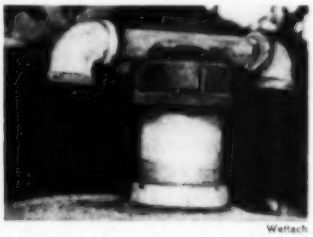
Tractor-pulley guard was built by Howard Fountain, Iowa City, Iowa. The shield is bolted to the tractor fender braces. The shield prevents belt from rubbing on wheel

Wettach

Rod barn braces hold plates to sills on the Ray Creelman farm, Oakville, Iowa. Rods have two adjustments for taking up slack. The brace rods will prevent severe wind from pulling the sill and plate apart

Kiff

Egg cart is made from wheelbarrow. Lugs were welded to wheelbarrow wheel and bent to grip tire. No tube is used. The baskets rest on arms welded to the frame. Built by Kenneth Garver, Boardman, Ohio



Wettach

Vent cap for gasoline-storage barrel is weatherproof. Pipe welded to cap acts as handle. Small hole is drilled through vent cap and pipe to act as breather tube. Built by Ralph Pisarik, Lone Tree, Iowa

McVicker

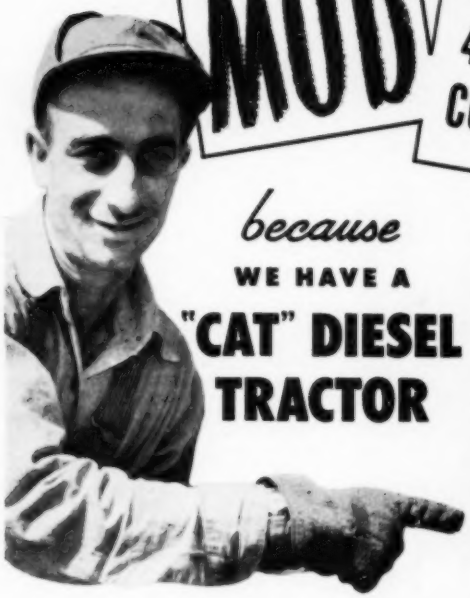
Accurate weighing on this farm scale is made possible by building additions to the scale. No animal's foot strays off the platform. Slanting boards along the sides of the scale keep all animals on the platform and make it possible to do an accurate weighing job. Additions were built by John Tyssowski of Delaplaue, Virginia

JUNE 5

MUD

OCT. 1

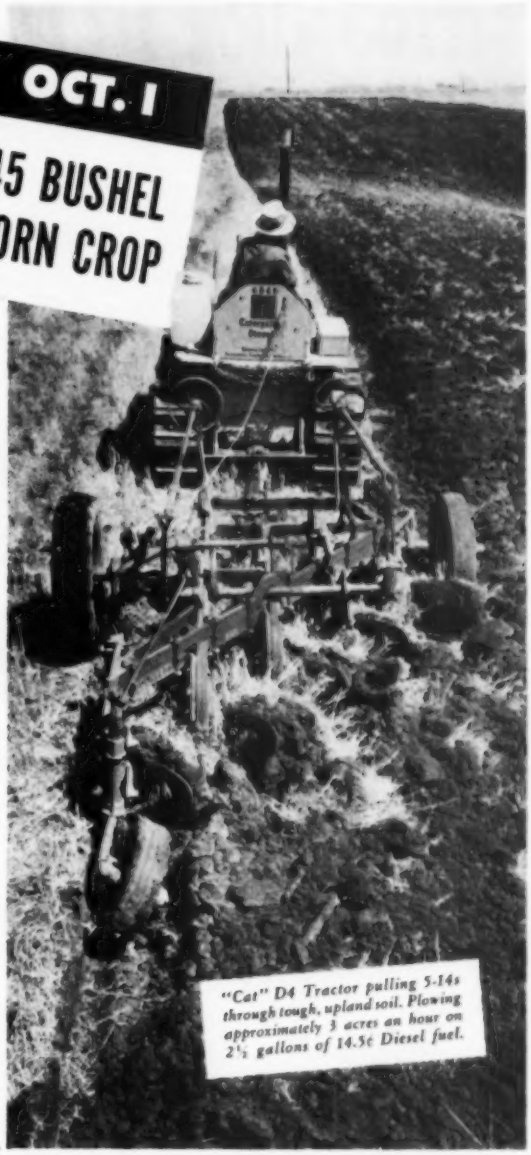
45 BUSHEL CORN CROP



because

WE HAVE A

"CAT" DIESEL TRACTOR



"Cat" D4 Tractor pulling 5-14s through tough, upland soil. Plowing approximately 3 acres an hour on 2½ gallons of 14.5¢ Diesel fuel.

. . report Sayler Brothers, Menno, South Dakota

"Every farmer should listen to our story. We have about 120 acres of bottom land. During the spring of 1950 this acreage was flooded. It was the first week in June before the water went down, but the fields were a virtual quagmire. Every one of our wheel tractors became mired trying to pull a disk through the field. We knew that only a 'Cat' Diesel Tractor would do the job, so we bought a D4. In a week's time we had the field planted. We were able to realize about a 45 bushel corn crop, where otherwise we would have had a total loss. The D4 has practically paid for itself in production and fuel economy and crop savings." So report the Sayler Brothers, Menno, South Dakota.

▶ Think back over the wet seasons you've had the last couple of years. How much ground have you wasted because you couldn't get in with your tractors? "Caterpillar" owners get into the fields early and loosen up the soil to dry it out for planting. They harvest the crop when it's right, though the ground may be boggy.

You may have already decided to become a "Caterpillar" owner, but perhaps you've heard that "Caterpillar" Diesel Tractors are in short supply. In many cases, that's true. Armed services . . . national defense projects and farmers like you find the need for "Caterpillar" dependability, traction and stamina greater than ever before. But see your Dealer. If he asks you to wait, you'll know there's a mighty good reason. Once you become a "Caterpillar" owner, you'll say, "It was worth the wait!"

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. . . is always ready and able to help you plan the adequate water supply you want. His complete, expert service protects your investment in a Myers Water System. He'll welcome your visit!

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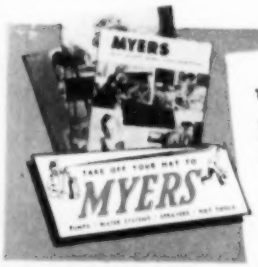

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How a barley champ does it

Arnold Lange of Redwood County, Minnesota, doesn't get excited when his neighbors have already harvested their barley and his is still in the field. Yet he has won top prize in the county barley contest two years and was near the top a third year. He waits until the crop is ripe. And that, says Lange, means when the kernels are hard. He has always received malting price at the elevator. This year, the judges in the state contest rated his barley No. 1 malting.

Lange raised Wisconsin 38 until the scab got it and since then has been growing the "L" variety. He generally grows 35 or 40 acres a year and last year got about 40 bushels per acre, which was good considering the unfavorable season.

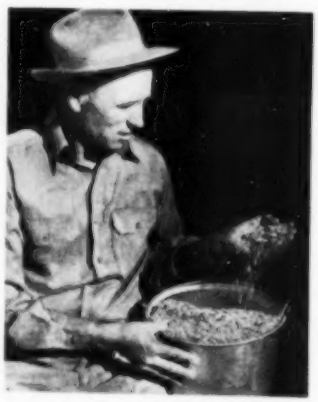
Lange has used a combine for 12 of the 15 years he has been in the barley-growing business. He doesn't thresh too close but leaves some of the beards on. This doesn't seem to make too much difference in the test weight. Close threshing would skin and break some of the kernels, and that, of course, would cut the value for malting. When Lange starts combining in the morning, he runs the concaves a little closer to knock out the damp grain. Later in the day when the grain is drier, he opens them up to keep from skinning the kernels.

Another reason for Lange's success with barley is that he always puts it on good ground. If the soil isn't very high in fertility, he adds fertilizer. Lange says that barley does a lot better on loose, well-worked soil—so he plows.

Seeding is done with a drill, and the earlier the better, says Lange—even before the oats and flax.

Lange sums up the most important factors in growing good barley like this: first, plant it on fertile soil; second, don't harvest until ripe; and third, don't thresh too close.

It surely looks as if these are the reasons he has been getting top malting-grade barley every year.



Arnold Lange of Redwood County, Minnesota, with his prizewinning "L" barley

Why Waste A Third Of Your Corn *and Lose Pigs Besides?*

Andy Seuntjens, Danbury, Iowa, says, "These are the best pigs I ever raised."

"I sold 186 head averaging 239 lbs. in 170 days. Best pigs I ever raised and most economical ration I ever used. Not one runt in the herd!"

JAMES H. MURPHY
President
MURPHY PRODUCTS CO.

Past records show that in the Midwest an average of four out of every ten pigs farrowed are lost before market time—and even the pigs that get to market often waste a lot of scarce, high-priced corn because their rations are not properly balanced up for efficient feeding. You can save as much as one-third of your corn and grow better, bigger pigs by balancing your corn with the body-building, pork-making substances required by fast-growing, healthy, money-making pigs. Make sure your pigs get the essential protein, mineral, vitamin and antibiotic substances they need by balancing your farm grains with MURPHY'S CUT-COST CONCENTRATE FOR HOGS. It's the all-in-one bag *concentrate* that does the job easily and at low cost.

Hold Down Death Losses and Feed Waste

Millions of little pigs farrowed on farms this spring will die before weaning time—and of those that live, authorities estimate that as many as *40 million* will be weak, puny runts. Carefully kept farm records show that every pig farrowed dead represents 140 pounds of wasted feed—and any pig dying between farrowing and weaning represents an average loss of 1¾ pounds of feed for every day it lives. Slow-growing, unthrifty runts, too, take their tremendous toll of feed.

Barring accident and disease, most pigs have a good chance of living and paying you a profit—if they are fed rations that supply all the feed essentials they require. Corn and simple supplements won't do this job. In addition to grain and roughage, pigs need extra protein, mineral, vitamin and antibiotic substances to get them off to a good start and keep them healthy. When they get *all* these nutrients they usually make much faster gains on less feed—and every bushel of scarce, high-priced corn you save is money in the bank.

You can make sure your pigs get these essential nutrients by balancing up your corn and roughage with MURPHY'S CUT-COST CONCENTRATE FOR HOGS. From one bag of CUT-COST you get all the extra protein, mineral, vitamin and antibiotic substances required for the job, including added amounts of Vitamin B_{12}.

Feed goes much further when properly balanced with MURPHY'S CUT-COST CONCENTRATE FOR HOGS because pigs do not starve for essentials that would otherwise be lacking in their rations. Usually only 5½ to 6 bu. of corn fortified with only 25 lbs. of MURPHY'S CUT-COST CONCENTRATE FOR HOGS will put on 100 lbs. of pork. That's real feed efficiency—real feed saving.

Thousands of Satisfied MURPHY Feeders

Thousands of MURPHY feeders throughout the Midwest are getting better, faster pork production on less feed than ever before. Read what some of them have to say about their results.

These hogs on the McConnell farm topped the market at a very low feed cost.

Mitchell McConnell of Pittsfield, Illinois, whose hogs are pictured here, has this to say:

"My 84 head of Chester Whites ate only 10 bu. 9 lbs. of corn each from weaning time to market. Finished out very smooth and topped the market. I like MURPHY'S CUT-COST CONCENTRATE FOR HOGS *because of the low feed costs both in corn and concentrate, and also because it is so simple to feed. I just self-feed the grain and self-feed* CUT-COST."

Carson Brothers of Parma, Michigan, have fed MURPHY'S for 14 years and they say it is the cheapest way to balance up farm grains and get the most out of them.

Earl McKinney of Palmer, Illinois, says he finds that with MURPHY'S he can raise better hogs with about *one-third less grain* than any other feeding method he ever tried. And that's the way it goes with MURPHY feeders wherever they are—fewer runts, faster gains on less feed, bigger profits.

Simple and Easy To Feed

In addition to the feed it saves and the better gains it can give, you'll find MURPHY'S CUT-COST CONCENTRATE FOR HOGS a real time and work saver. You can feed it mixed with grain according to directions, you can self-feed it, you can hand-feed it—any way you like, it's that easy!

Start now to feed your sows and pigs this efficient sow and pig meal. Mix, or have your Murphy Dealer mix:

1000 lbs. ground yellow corn
700 lbs. ground oats
200 lbs. alfalfa meal
300 lbs. MURPHY'S CUT-COST CONCENTRATE FOR HOGS

For growing and fattening hogs, self-feed all the corn your hogs will eat and self-feed MURPHY'S CUT-COST CONCENTRATE FOR HOGS—or feed a mixture of:

1800 lbs. ground grains (corn and oats)
200 lbs. MURPHY'S CUT-COST CONCENTRATE FOR HOGS

Let your Murphy Feed Dealer help you with all your hog feeding problems. Remember, Murphy's **GUARANTEE** of improved vigor and faster gains at lower feed cost or your money back.

Your Murphy Feed Dealer has *all* these profit-making Concentrates:

- **MURPHY'S CUT-COST CONCENTRATE FOR HOGS**
- **MURPHY'S CUT-COST CONCENTRATE FOR BEEF CATTLE**
- **MURPHY'S CUT-COST CONCENTRATE FOR DAIRY CATTLE**
- **MURPHY'S CALF CONCENTRATE**
- **MURPHY'S VIG-O-RAY CONCENTRATE FOR POULTRY**
- **MURPHY'S VIG-O-RAY CONCENTRATE FOR BROILERS**
- **MURPHY'S VIG-O-RAY CONCENTRATE FOR TURKEYS**
- **MURPHY'S MINERALS FOR ALL LIVESTOCK**

With all these you are *guaranteed* better results at lower feed costs or your money back.

MURPHY PRODUCTS CO., Burlington, Wisconsin

Stay put—come high wind or gale

Celotex STA-LOK* Shingles guard your roofs from costly wind damage

You end the expense and nuisance of frequent roof repairs due to wind damage, when you roof your home, barn and other buildings with Celotex STA-LOK Asphalt Shingles!

Interlock so securely they stay put even in a gale. No shingle "blowups"! Each STA-LOK Shingle is anchored at *eight* separate points for complete, lasting protection against wind, snow, rain, sleet, hail.

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So protect your pocketbook. For a roof that's virtually windproof, as well as thrifty and attractive, roof now with Celotex STA-LOK Shingles!

See them in a variety of beautiful "Harmonized Colors" at your Celotex Building Material Dealer's. While you're there, ask him to show you the other patterns and styles available in Celotex Triple-Sealed Asphalt Shingles, too.

Look! Even without nails,

Celotex STA-LOK Shingles hold together. That's because the exclusive Celotex design interlocks them firmly. Helps prevent wind damage, avoid costly repairs.

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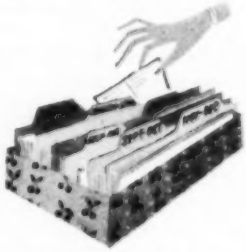
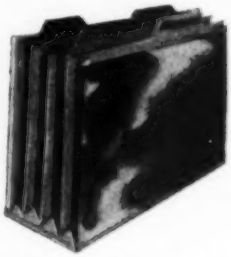
File it!

By Joan Scovel

No doubt you have a catchall drawer somewhere in your house into which you put those "I-have-to-save-it-but-what-will-I-do-with-it" pieces of paper. Recipes, bills, and receipts are only a few of the things that fall into this classification. And when the moment arrives that you *have* to find one of them, a lengthy search begins. To avoid the heart-stopping feeling you have when you're sure you have thrown away the very thing you need, we suggest you file these papers the easy and simple way—in containers you always have around the house. These containers are easily adaptable to any of these ideas.



Canceled checks: For these, a cigar box is wonderful! Cut the top off the box, then make six dividers from heavy cardboard to fit inside. With gummed paper, label each divider for a two-month period. Cover the sides of the box with a small-design wallpaper. In this way, you can keep a collection of two years' canceled checks in a desk drawer for quick, easy reference.



Insurance and tax papers are easily misplaced, but here's how to keep them in order. Glue four manila folders together, then paste a strip of heavy cardboard across the bottom of all of them. Coat the flat surfaces front and back with a strong glue or cement. Paste a sheet of heavy plastic from top of the front, across the bottom, and up the back side. Leave the sides open. The plastic, being durable and washable, will enable the file to withstand rough treatment! Make two or three of them for machinery and repair receipts, bills, and records, and put one in your office, several in your husband's desk. He'll find them handy.

Drawings: Mollenbeck

Recipe files seem to be either too small to hold all the family favorites or too large to fit in a drawer. Here's how you can solve this problem: Insert a partition across the front of a kitchen drawer, then divide space into 5"-wide sections to hold the standard 3"x5" recipe cards. The same thing could be added to one of Dad's desk drawers for any and all of his receipts he may wish to keep handy for reference.

Grocery slips, cream, milk, and egg sales receipts all will fit nicely into medium-sized manila envelopes, purchased at the dimestore. What could be handier or easier than to tape four of them to the inside of a cupboard door or on the wall in your husband's office? Label them in big, bold letters for quick reference—and we will guarantee that your family will be impressed with your efficiency!

Livestock papers, feed, fertilizer, and seed records all will slip perfectly into the four titled compartments of a record album. By placing a large, gummed label over the hole in the center of each pocket, you will be able to identify its contents. Cover the outside of the album with a striking plaid wallpaper and apply a light coat of clear shellac for protection and you will have a handsome file case! Use a second file like this for purchase lists or anything else you wish to file.

HOW TO PROTECT Your Family Circle

Check Yourself — Do You Have . . .

1	A plan to pay hospital and surgery benefits for yourself and your dependents?	
2	A plan to pay monthly income while you are disabled by illness or accident?	
3	A plan to pay medical and surgery bills when your children are hurt at school or play?	
4	A plan to pay all expenses up to $5,000.00 in case polio strikes you or any member of your family?	
5	A plan to cancel the mortgage and refund all payments on principal in event of your death?	
6	A clean-up fund to pay off all your debts including estate and unpaid income taxes at time of your death?	
7	A plan to pay your family $1,000.00 in cash on the very day of death by emergency draft attached to your policy . . . then . . . provide an income for your wife and children during the important re-adjustment period while the children are growing?	
8	A plan to guarantee funds needed for your children's college education?	
9	A plan to guarantee cash or monthly income at whatever retirement age you select?	
10	A complete Key man, Partnership, or Corporation insurance plan?	
11	A group insurance plan in your company? (Life — Accident & Health — Hospitalization)	

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Without obligation on my part please send me information about the B.M.A. plan to cover the needs I have checked.
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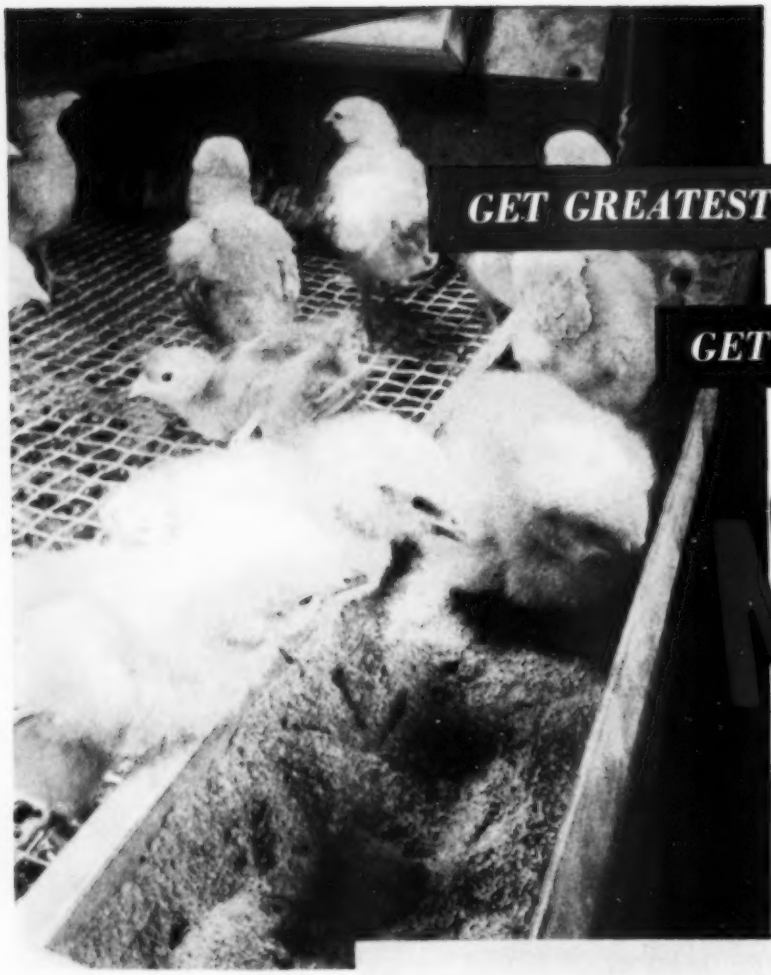
CITY .....
DATE OF BIRTH .....
OCCUPATION .....

In these times! — family needs multiply! Accident and illness are inevitable — tonsils to come out — children to be educated — mortgages to be paid. Any of these may put an abnormal strain on the budget if you don't have complete income protection. So why not check yourself today. See if you have all the protection your family needs. Check each item and mail the coupon. We will tell you how easy it is to provide the missing services.



GET GREATEST GROWTH

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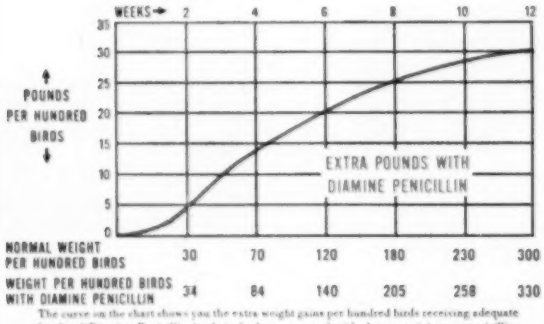
NEW STABILIZED PENICILLIN GIVES MAXIMUM GROWTH RESPONSE FOR CHICKENS



The curve on the chart shows you the extra weight gains per hundred birds receiving adequate levels of Diamine Penicillin in their feed as compared with those receiving no penicillin.

Comparison of tests covering more than 400 separate groups of poultry, conducted by state universities, feed companies and experimental farms, proved Pfizer's New Diamine Penicillin out-performed all other antibiotics in poultry feeds. In addition, for the first time, it offers stability of the penicillin in feed processing and storage. Write us for complete details.

Pfizer

Discoverers of Terramycin

LOWER COST WITH

Diamine Penicillin

Developed Specifically for Poultry Feeds

Faster growth for your chicks . . . earlier maturity for layers, earlier market for meat birds. That's what you can expect if the chick starter and the growing feeds you buy are fortified with Pfizer's New Diamine Penicillin.

The growth response will be as much as 20% more than if the ration contained no antibiotic. It will be notably better than with other antibiotics, even other forms of penicillin.

Comparison of tests covering more than 400 separate groups of poultry, conducted by state universities, feed companies, and experimental farms, proved Pfizer's New Diamine Penicillin out-performs all other antibiotics in poultry feeds. In addition, for the *first* time, it offers stability of the penicillin in feed processing and storage.

New Stability insures potency at the feed-lot

Poultry scientists have established the growth power of penicillin for poultry. When present only in very small quantities, this well known antibiotic makes a well balanced poultry feed even more effective.

In the past, the problem with penicillin has been its lack of stability. Feeding results have not always been consistent, because there has been loss of the antibiotic in feed processing and feed storage.

Now Pfizer has solved the problem—*by developing an entirely new form of penicillin for poultry feeds.* This is Pfizer's New Diamine Penicillin.

It is not only superior in growth production. It is far more stable than previous forms of penicillin—through feed manufacturing and storage. Pfizer's New Diamine Penicillin brings its nutritional "boost" right to your feed hoppers.

Be sure the poultry feeds you buy are fortified with this new Pfizer Penicillin.

CHAS. PFIZER & CO., INC.

630 Flushing Avenue, Brooklyn 6, New York

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With Pfizer Feed Supplements

You can color-style a room for only a few dollars with easy-to-apply SUPER KEM-TONE and KEM-GLO.

Sunset Rose

a color fashion with a future in

Super Kem-Tone

Rich, heart-warming Sunset Rose for walls that create a friendly background for your furniture. It's one of the glorious new SUPER KEM-TONE colors. It's so easy to apply . . . dries so quickly, too . . . a "new" room in a day. Lovely pastels, high-fashion deep tones and rich "in-between" shades . . . you'll find just the colors you desire in this amazingly durable, washable paint. Also, matching colors for woodwork in KEM-GLO Lustre Enamel.

$1.59 QT. $4.98 GAL.

Deep Colors Slightly Higher

NO THINNING . . . JUST STIR AND APPLY

Hundreds of Color Schemes in the SUPER KEM-TONE COLOR ALBUM

Sunset Rose with Horizon Blue and Golden Yellow! That's only one of 720 different color schemes created by experts and shown, at a glance, in this Color Album. It makes it easy for you to choose colors for walls, floor and furnishings . . . sure of perfect harmony. Your dealer will show it to you.

***GUARANTEED WASHABLE**

After it is thoroughly dried, tests show SUPER KEM-TONE will withstand repeated washings with usual household cleaners without losing its beauty. Dust, grime, grease, even crayon marks, wash off easily.

SUPER KEM-TONE is Guaranteed* Washable or your money back by seven leading paint companies . . .

Acme Quality Paints, Inc., Detroit John Lucas & Co., Inc., Philadelphia
W. W. Lawrence & Co., Pittsburgh The Martin-Senour Co., Chicago
The Lowe Brothers Co., Dayton Rogers Paint Products, Inc., Detroit
The Sherwin-Williams Co., Cleveland

AT LEADING PAINT, HARDWARE, LUMBER AND DEPARTMENT STORES EVERYWHERE

Kem-Tone

Top Value in Thrifty Home Beauty

The oil paint that mixes with water, is easy to apply over any wall surface, dries in an hour to a lovely flat matte finish. Amazingly economical, one gallon thinned with two quarts of water makes a gallon and a half of paint, ready to apply, at only $2.66 a gallon.

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Miracle lustre enamel for kitchens, bathrooms, all woodwork, indoor and outdoor furniture. One coat covers most surfaces, dries in 3 hours to a durable finish that washes as easily as your refrigerator. Even boiling water won't hurt its beautiful finish. Colors match SUPER KEM-TONE colors!

$1.39 PT. $2.39 QT. $7.98 GAL.

Slip them off and suds them

How to wash slipcovers

By Maurine Harris

Slipcovers (bless the one who thought of them!) are invaluable for protecting beautiful furniture—and concealing that which *isn't*. Whatever their purpose, they certainly bear the brunt of the family's daily living. Periodic cleaning or laundering is well-deserved consideration for these household items if they are expected to last and keep up appearances.

Preparation for washing. If, at the time of purchase, you did not get the facts about washability of your slipcover fabrics, be on the safe side by running a little test of your own. Using a measured, leftover piece of the material or an inconspicuous portion of one of the covers, soak it in lukewarm suds for 5 to 10 minutes. Squeeze it out gently, and observe any traces of bleeding of color in the water. If bleeding or running is only slight, you may expect the fabric to wash satisfactorily. After the sample is dry, you can check it for shrinkage and distortion, too.

Before washing, use a stiff clothesbrush to whisk away all the accumulated grit and lint along piping or cording. Then shake the slipcovers to get rid of surface dirt.

Any needed repairs should be done before washing, so examine for tears and ripped seams. Remove fringe and other detachable trimmings before washing.

Finally, in preparation for washing, close all zippers or other fastenings.

Washing. Soft water is a big factor in good washing, so use a water softener, if necessary, in the wash water and in the first rinse. Make a good, rich suds, using a mild soap or synthetic detergent in lukewarm water.

Wash only slipcovers; do not mix other clothes with them. Be careful not to overload the machine. For most washers, typical loads are: 1 divan cover, *or* 2 chair covers, *or* 5 pillow covers.

Washing time should be limited to about 5 minutes. Add extra soap, if necessary, to keep an active suds during the wash period. Rinse thoroughly. Then, if the slipcovers are cotton fabric, starch them.

Starching will give body to the material and will also keep the slipcovers from resoiling so quickly. The starch may be added to the last rinse in the machine, if you take care to rinse it all out of the machine afterward. A suggested proportion for starch is: 3 cups starch dissolved in 3 cups cold water, and combined with 3 gallons of boiling water.

If yours is a wringer-type machine, adjust rollers of wringer loosely, and put covers through folded as flat as possible. Remove the slipcovers immediately after wringing or spinning, shake them out gently and hang them, or put them in the dryer. (Letting them stand in the tub, wet, encourages colors to run.)

Drying. For line-drying, the slipcovers should be placed out of direct sunlight and away from direct heat. Straighten all seams and pull carefully into shape. Rapid drying is desirable, so, if possible, you might put an electric fan below the slipcovers and direct the air upward to circulate through them. Remove the slipcovers from the dryer, or lines, while they are still slightly damp.

Ironing. If covers require thorough ironing, press them on the wrong side with iron temperature adjusted to suit the type of fabric. Use dampened sponge to correct overdry spots as you iron. If the fabric requires very little ironing, then just iron the bottom ruffle or flounce, and replace the cover on the chair or divan while still slightly damp, stretching and smoothing it gently into place.

Storing. Slipcovers to be stored for the season should be carefully laundered, too. Complete drying is important to prevent mildewing and excessive wrinkling of the fabric.

For line-drying the slipcovers, pin the top of the back to one line, the front of the seat to a parallel line, and gently stretch

For a nice finishing touch, you can plug in the iron "on location" and lightly go over slipcover right on the furniture. END

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see your local dealer today!

A Bear for Wear

GILLETTE *Tires*

DIVISION OF UNITED STATES RUBBER COMPANY

Hobo hobnob

[*From page 32*]

each holds his paper behind his back and tries to tear it into the shape of a dog. Give the best dog-tearer a hot dog on a roasting twig.

Old shoe. Wind up the games with this rumpus race. All the hobos stand at one end of the room. Each takes off his right shoe and tosses it into a pile at the other end of the room. Then everyone hops on his shod foot to the other end of the room, finds his shoe, and puts it on without touching his right foot to the floor. He isn't through until he hops back to his starting place. Just watch the frisky young hoppers nose out long legs!

Mother. You are the commander-in-chief of the grub. To feed your mob of hungry hobos you'll need heaps of good, hearty picnic fare. Stir up a couple of kettles of cocoa, too, so there's plenty for two or three rounds. The younger kiddies can use toothpicks to mark melted chocolate faces on marshmallow tops to float in the cocoa.

The hobos can squat in a circle to eat. Give each one a section of newspaper for a napkin. Serve your picnic food on pie tins and the cocoa in everyday cups. Top off the lunch with a basket of fruit.

What do hobos do when they're full and happy? Sing, of course. One hobo can play the piano while the rest gather around to sing, or if there's a ukulele or banjo in the crowd, bring it on! Pick the old favorites that even the youngest know: Home on the Range, Dixie, Clementine, Harvest Moon, Old Black Joe. They'll lead to others and others until wee nodding heads say it's time for little bums and big bums to start for home. **END**

The farmer sees a ghost

I ran to scold him
When he climbed my tree.
What use a sign marked—
"Private Property"?

Switch in hand, I cried,
"I'll get you, fellow!"
And there I treed him
'Mong the yellow

Peaches he would steal,
All frightened eyed.
But I drew back,
For at his side

There stood another
With his pockets stuffed—
Freckled face deformed
With cheeks well stuffed

With stolen fruit.
He laughed in glee
And taunted down
"Remember me?"

And I remembered.
So I walked away
And laughed—cause, shucks!
I *was* a kid one day!

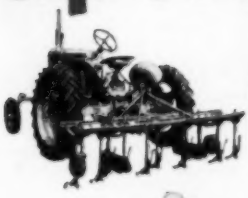
—*Ruth E. Lancaster*

NEW Adjustable Front Axle Plus Short Wheel Base

NOW YOU CAN

Cultivate Up Front

MODEL "VAC" WITH ADJUSTABLE FRONT AXLE



or Behind if You Like

MODEL "VAC" WITH REGULAR FRONT END

All the advantages of a 4-wheel tractor . . . all the close-coupled compactness of short wheel base . . . all the adaptability of adjustable front wheel tread . . . plus easy steering, look-ahead cultivation with front-mounted cultivator! You get them ALL with the *new* adjustable front axle on the Case "VAC" Tractor —and all at only a trifle extra cost.

Economy Tool Bar latches onto Eagle Hitch in one minute, makes a fine rear-mounted cultivator. Takes sweeps, teeth, shovels, spaced as you like to suit wide variety of crops. Also takes planting units. Eagle Hitch comes on all "VA" Series Tractors, hooks up most implements in a minute—and usually you stay right on tractor seat. Full line of Latch-On Implements includes exclusive Case Break-Away Plow that unhitches when it hits stump or stone.

Does 100 Jobs

Either way . . . with tricycle front end or the new adjustable axle . . . the improved Case "VAC" is the tractor to hustle plowing, disking, planting, cultivating, then help with your chores. Stay right on the seat—drop off the implement, latch onto Utility Carrier. It lowers to load, lifts by hydraulic control; hauls milk, feed, fertilizer, fencing. Put on blade or scoop —plow snow, grade a driveway, dig a ditch. Mount saw, loader or hammer mill—buzz wood, load manure, go grinding feed. Like larger Case Tractors, the "VA" Series have heavy-duty moderate-speed engines built to run year after year with low upkeep.

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Take the wheel yourself—test the "VAC" on your own farm. See how bigger wheels and tires give added traction, add inches more clearance for crops. Get the feel of the new brakes, the new easy-action, shock-free steering gear. See your Case dealer now.

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- ☐ Big 2-plow "SC"
- ☐ 3-plow "DC" Tractor
- ☐ 4-5 plow "LA" Tractor
- ☐ Forage Harvester
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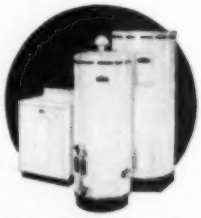

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Watch your bedside manners

A call on an ailing friend may not be a good deed if you forget to follow these sickroom do's and don'ts

Do sit where the patient can see you comfortably. You'll be just a "pain in the neck" if your friend has to twist or crane his head to see you. Make every effort to put your friend in a relaxed mood. Speak slowly so that it is easy to follow your conversation.

Don't sit or lounge on the patient's bed. It may actually be painful to him to have the bed jostled about. And never toss your coat or parcels on the foot of the bed. In most hospitals there's a rule against it—and that rule was made for a good reason.

Do be original and a good Samaritan, too, by helping out with patient's "homework." You might make away with the laundry and return it freshly washed and ironed, or offer to keep a mother's children a day or two, or longer if you can. Even a cake baked for a husband shifting for himself will be very much appreciated.

Don't bring candy or other edibles unless you're sure the patient can eat them. Most persons confined to a hospital are likely to be on special diets, and you'll only be a "torturer" if you tote in forbidden goodies.

Do express faith in the patient's doctor and the care he is receiving at the hospital. But keep any advice for a speedier recovery to yourself. The patient won't be at all happy to hear that you think he might not recover under the present method of treatment because it differs from the care you were given for a similar illness.

Do remember that to someone abed the daily round of the mailman is a big event. So, to make sure he'll not pass up a sick friend of yours, mail a cheery get-well card or note each day. Scrapbooks made from cards or pictures and cartoons are also a welcome sight.

Don't rush to see the new mother or a patient who has undergone an operation. Give a new mother a chance to gain a little strength. And in all cases, check with the family first—to make sure your friend is able to have callers before you go to visit.

Do limit your visit. Conversation can be very tiring to someone who's under the weather, and a little bit goes a long way. If you're calling at a hospital, remember visiting hours are short, so give others a chance. Many hospitals limit visitors to two or three for each patient.

Don't greet your friend with a kiss or warm embrace. You may be in the pink of health yourself, but still be a carrier of all sorts of germs from outside. And it goes without saying, if you have a cold yourself—you have no business even being a hospital visitor.

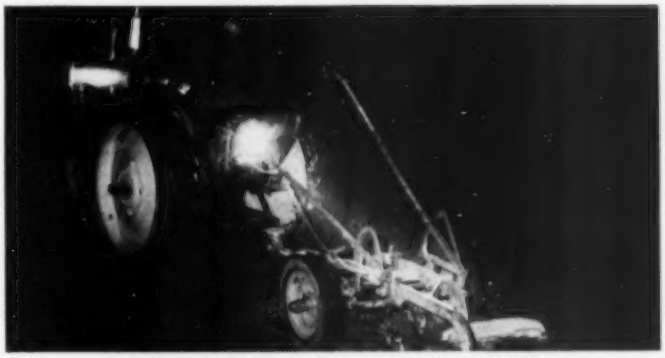
Do be cheerful. A tale of the death of a friend with a similar ailment is guaranteed gloom. And keep your own ailments to yourself. They can't possibly be very interesting to anyone recuperating in a hospital. Make sure that you have the reputation of being a good visitor. **END**

Drawings: Elmer Jacobs

A trick with keys

Here's a teen-age fad that should be a favorite with your crowd. Take discarded keys, cover with gold or silver paint, and wear as a necklace on a piece of velvet ribbon. House keys are especially good but any size or shape key will work. Clever bracelets can also be made with the keys. A cluster of tiny keys makes an attractive necklace, too. Still another variation; gild a small padlock and key and wear together on a wider ribbon. —*Mrs. R. L. Pease.*

How G-E All-Glass Headlamps make after-dark jobs easier



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G-E tractor lamps make the tough job of night plowing easy, let you get spring plowing done faster. Brightly-lighted furrows make steering simple.

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"Light for Seeing on the Farm" tells how and where to use lamps and fixtures. For your free copy, write General Electric, Division 166-SF-4, Nela Park, Cleveland 12, Ohio.

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TAPEWORMS
Large
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and
Cecal Worms
at
LOW COST

Corncob concrete

By Wayne Swegle

Corncobs may prove to be the answer to some farm-building problems. J. S. Boyd and G. O. Edgerly, at Michigan State College, have successfully used ground corncobs to replace part of the aggregate in concrete. Light weight and insulation properties are the main advantages of corncob concrete.

Corncob concrete is simply a mixture of cement, sand, and water, with ground corncobs thrown in to replace the gravel. The mixture that proved best for all-round use included hydrated lime, also.

The best mixture used in the tests contained 1 part cement, 2 parts sand, 3 parts corncobs, and ½ part hydrated lime. That's figuring by volume. The amount of water used was just enough to mix the materials together.

This formula for corncob concrete combines both the highest strength and insulating value. It also is relatively durable and has a comparatively low ability to absorb water—a necessary quality to get the desired insulating effect.

Boyd says this concrete mix shows promise for housing livestock and farm products. The mix isn't strong enough to support a second story, so its use is limited to one-story structures. Nails and screws can be readily driven into the corncob concrete.

To get the cobs ready for the mix, Boyd and his helpers advise starting with cobs that are clean, bright, and dry. You can grind them in an ordinary hammer mill.

After grinding, run the cobs over a ½-inch-mesh screen with a blower below to blow out the chaff and shucks. Then run the ground cobs over a ⅛-inch-mesh screen and throw away the fine material that sifts through.

Soak the ground corncobs for at least 6 hours or overnight before mixing so they won't absorb the water in the concrete mixture. If possible, change the water while you're soaking the ground cobs to carry off dirt and chaff. After soaking, the excess water should be removed by draining before you put the cobs in the mixer.

Where it's put into forms, as for walls, the concrete should be puddled into the forms to insure a smooth surface when the forms are removed. A full load should not be placed on the hardened concrete for at least 28 days.

A cement paint should be put on corncob concrete on the outside of buildings. That's to protect it from excess moisture. At Michigan State, corncob concrete was exposed to the weather for 15 months, including 2 winters, with no apparent defects. These test slabs were not painted with a protective coating.

Corncob concrete weighs 90 pounds per square foot as compared with 150 pounds per square foot for ordinary concrete. The cost of materials is less than for ordinary concrete but it's about equal when you figure the extra labor for grinding, sifting, and soaking the corncobs.

Photographs: Author

This is the aggregate used in concrete in the Michigan State experiment. Corncobs are put through a hammer mill, ground into pieces about ½ inch in size

A close-up view of corncob concrete made into blocks shows the texture. Blocks on left are covered with cement paint. At right, blocks are not covered

This is the two-pen farrowing house built of corncob concrete to check the advantages of new aggregate in use on the farm

Here's Why the
MASSEY-HARRIS CLIPPER

does a cleaner job in more than 110 different crops

First, it gets more grain into the combine. The Massey-Harris P. T. O. Clipper takes a full 6-foot cut. Cutter-bar knives cut cleaner, reduce wear on pitman and bearings — run smoother.

The big 6-bat reel, raised or lowered from tractor seat, prevents bunching of down grain in front of the cutter bar — avoids "throwing grain over" with reel where crop is tall. Full-floating table hugs the ground but doesn't dig in — shaves to within 1½ inch of ground or can be raised to 33 inches. Gently sloping rubberized canvas keeps the crop moving in an even blanket into the combine.

Second, it threshes cleaner. Full-width beater in front of the cylinder breaks up slugs and bunches — gives smooth, positive feeding to the cylinder. Big 5-foot rasp-bar cylinder rubs out the grain the natural, easy way. Controlled vacuum keeps rasps and concaves clean. Concaves are adjustable at both front and rear. More accurate setting means cleaner threshing. Cylinder speeds are easily changed for proper threshing action in all crops.

Third, it delivers more and cleaner grain, to bin or bag. Another beater behind the cylinder controls the speed of crop leaving cylinder — keeps straw loose and open, and lays it directly on the front of the straw-rack in a thin, even flow. The loose straw is pitched and tossed 210 times a minute — for complete separation. Travelling the full length of both the chaffer and clean-grain screen, your grain is cleaner. Controlled air blast is easy to adjust to your particular crop conditions. Close-fitting grain augers and rubber elevator paddles reduce grain cracking.

You'll like the large 25-bushel grain tank, the fast auger unloading, and the high elevator spout that clears tall truck beds. A swing hitch is available, which positions the combine directly back of the tractor for transporting. The Clipper is built low for stability on hillsides, yet has extra clearance for crossing terraces, shallow ditches, etc. Short drives and sturdy frame construction mean it's built to stand up in rough fields, heavy crops, and give years of service.

See your Massey-Harris dealer for full details. Find out why more and more farmers find it pays to "Make it a Massey-Harris." For free folder by mail, send coupon below.

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HOW TO GET RID OF REFRIGERATOR ODORS

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Attach handle—you have a handy floor mop! Gets floor dust fast because *sweep-suction* action picks up more dust and *holds* it!

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"the greatest help in housekeeping!"

O-Cedar Corp'n
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Guaranteed by Good Housekeeping

Good storage in small spaces

[*From page 51*]

Because limited funds demanded a small house, Lorene Fox wanted her new home to have at least an illusion of space—and a place to store everything neatly behind closed doors. So the Foxes began by drawing a floor plan to meet the above requirements, and others including an all-on-one-floor arrangement, two bedrooms, a room arrangement to fit their daily farm-living pattern, eating facilities that could be expanded to handle at least 12 people, and an efficient utility room.

After arriving at what they thought was a perfect floor plan, they made a scale model of the house and followed up by making scale models of each room. These models enabled the Foxes to spot their mistakes—and correct them before a dime was spent on actual construction.

Using the model rooms, they planned the location of permanent storage units and fixtures, located doors and windows, and worked out furniture arrangements.

When they had completed their plan, Morris and Lorene Fox had a farmhouse with a total area of 988 square feet. They built it in 1947 and 1948 for $6,100—not counting their own labor.

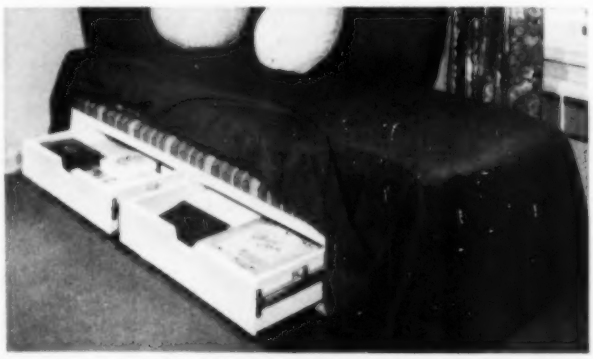
There isn't a foot of wasted space in the house. And the illusion of space has been achieved by the very compactness of the storage units, by the open area between kitchen and utility room (see floor plan, page 50), and by a picture window in the living room and one above the kitchen sink.

The Foxes wanted a utility room "as neat and efficient as a well-run plant," so located in it the furnace, a sink, laundry facilities, water heater and softener, work-clothes closet, and cabinets for cleaning and ironing equipment and canned goods.

It's a house full of ideas—all realized in practical time-, labor-, and moneysaving conveniences that require a minimum of upkeep. And because of built-in efficiency, the house literally dictates easy housekeeping and comfortable living.

This wardrobe closet is 30" deep, has shoe rack and two pull-out rods to make clothes readily accessible. The bottom drawers are mounted on ball bearings and roll out easily. The shelves at top store out-of-season items and luggage

This closet is close to both bedrooms and living room. The Foxes used half-circle blocks of wood for hatracks, built two quarter-circle shelves to accommodate gloves and purses, and put a dowel between shelves for a scarf rod



One of two twin-size beds in the guest room, which also doubles as a den. Morris Fox made the beds from one old studio couch. He left the original couch-seat mattress on its own base frame and constructed a second base frame for the mattress that was formerly the couch back. The two drawers he built under each bed are used for storing scrapbooks, hobby materials, gift wrappings, miscellany. **END**

No other method can wash dishes *so clean, so fast!*

Youngstown Kitchens

1952

JET-TOWER DISHWASHER

with positive Hydro-Electric Control

NO MAN, woman, or other machine can wash dishes so clean, so fast as Jet-Tower Dishwashing . . . with positive Hydro-Electric Control, which gets the utmost out of every second of time, every drop of water, every bit of detergent.

So clean! 58 whirling jets of booster-heated water shear off food soil and film . . . get dishes hygienically clean, sparkling bright.

So fast! In less than 10 minutes, dishes are washed, flushed, and rinsed . . . automatically, electrically!

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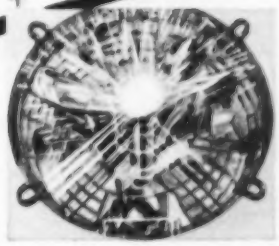
Youngstown Kitchens are sold throughout the World



1952 Youngstown Kitchens Electric Sink, 48" wide. Jet-Tower Dishwashing, full sink facilities. Food Waste Disposer and rinse spray available at extra cost.

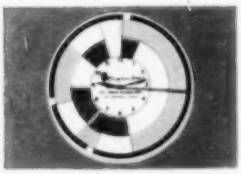
Vigorous, top-to-bottom water action like this is possible only with Jet-Tower Dishwashing. Really eliminates hand dishwashing. Visit your Youngstown Kitchen dealer soon for a free demonstration.

Youngstown Kitchens

Call Western Union, Operator 25, and without charge get the name of a nearby dealer.

From start to finish, positive Hydro-Electric-Controlled Jet-Tower Dishwashing efficiency!

Booster heater, thermostatically controlled and fully insulated, keeps water piping hot—hotter than your hands could stand—for perfect dishwashing!



Hydro-Electric Control uses water weight, water pressure, and electricity for perfectly timed Jet-Tower action. Insures efficient service for years to come.

SPECIAL $100.00* ALLOWANCE

March 15 — May 31, 1952

To introduce the new 1952 Youngstown Kitchens 48" Jet-Tower Dishwasher with Hydro-Electric Control—thousands of dealers are making the above offer to purchasers who will promise to show and explain it to five friends, neighbors, or relatives.

Watch your local newspapers for the announcements of dealers in the U. S. who are making this offer.

*$75 allowance on the 27" model. © 1952 Mullins Manufacturing Corporation

TAKE TIME TO READ THIS AD... 2 MINUTES—WELL SPENT

At planting time, you can look ahead to a good harvest when you use

5 STAR FUNK'S G-HYBRID SEED CORN

FUNK'S G HYBRIDS

When you plant Balanced Funk's G-Hybrids, you get the greatest possible protection of each of these bred-in 5-Star Qualities . . . if and when it is needed:

★ **FAST STARTING**
Guaranteed high germination, full uniform stand, vigorous plants even under tough conditions.

★ **INSECT RESISTANCE**
Protection against pests such as corn borers, root worms, ear worms, etc.

★ **DISEASE RESISTANCE**
Bred-in qualities to help beat smut, blights, wilts and rots.

★ **DROUTH RESISTANCE**
Capacity to extract, conserve and use available moisture to best advantage.

★ **STANDABILITY**
Strong stiff stalks with excellent roots; stand and hold their ears where others may fail.

TO AMERICA'S CORN GROWERS:

OUR THANKS to you. Again this year, more of you will plant more Funk's G-Hybrid seed than ever before. You made it possible for us to say the same thing in 1951, '50, '49—and in previous years. To old and new users alike, we make this pledge: You can continue to depend on Funk's G-Hybrids for the top yields and performance that the growing season in your area allows.

WE'RE SORRY that tough weather last season in many of our seed production areas, plus the heavy demand for G-Hybrid seed, is making it difficult for dealers in some areas to supply late buyers with the exact G-Hybrids or grades they prefer.

HOWEVER, in most cases your dealer will be able to take care of your requirements for the type and kind of G-Hybrid you need. He will do his best to provide proved G-Hybrids that will do a good job on your farm in 1952.

FOR 1953, *we urge you to place your preferred order early.* Then you'll get top choice seed in the exact grade and variety you want for planting next spring. About 90 different Funk's G-Hybrids will be available in maturities that meet every need and farming condition . . . including *new G-Hybrids with superior yield and performance characters.*

REMEMBER . . . For nearly 35 years, Funk's G-Hybrid research leadership has been putting bigger yields of better corn on American farms. No other corn breeding organization can match the nation-wide research and testing program that makes and keeps Balanced 5-Star Funk's G-Hybrids Consistently Good . . . Year after Year.

Consistently Good YEAR AFTER YEAR

FUNK BROS. SEED CO.
BLOOMINGTON, ILL.
And Associate Producers of Funk's G-Hybrid Seed Corn

BOYS—

how's your dating know-how?

1 When your handsome boy friend barges up to chat with you and your best girl, do you
a. Introduce him even if it hurts?
b. Ignore him and explain to him later as best you can?
c. Talk to him without introducing him to your girl?

2 In the search for a movie seat in a dimly lit theater, do you
a. Follow the usher while your date brings up the rear?
b. Let the usher be her guide while you follow?
c. Walk side by side with her behind the usher?

3 It's a four-wheeled date. When you drive a car, do you
a. Open and close her door every time she climbs in and out?
b. Let her do it herself as she does when there's no Sir Galahad?
c. Slide in the car first from her side, reach across her to close the door?

4 When you ask a girl for a date, do you
a. Plan to do the things you're most interested in and hope she can learn?
b. Ask her what she wants to do when you arrive?
c. Give her a choice of two or three things to do when you ask for the date?

5 When you wait for a girl who's a little late, do you
a. Catch up on the news by hiding behind the evening paper?
b. Get to know her parents? Who knows—they may even be human.
c. Honk the car horn to hurry her up? Why bother to get out of the car?

6 When you order a snack after a movie, do you
a. Suggest a steak, gulp, and hope she knows you don't mean it?
b. Clue her in—tell her what you are going to eat?
c. Order for her without asking her preferences? Why ask?

Answers on page 94

GIRLS–

how's your dating know-how?

1 When your date suggests after-movie eats, do you
a. Make up for the dinner you didn't eat at home?
b. Get a hint by asking Romeo what he's having?
c. Say you don't care what you have when you do have a preference?

2 You're in the dark when it comes to finding a seat in the movie. Do you
a. Let your date lead and grab him by the hand?
b. Send your date to find a seat while you wait in the lobby?
c. Follow the usher?

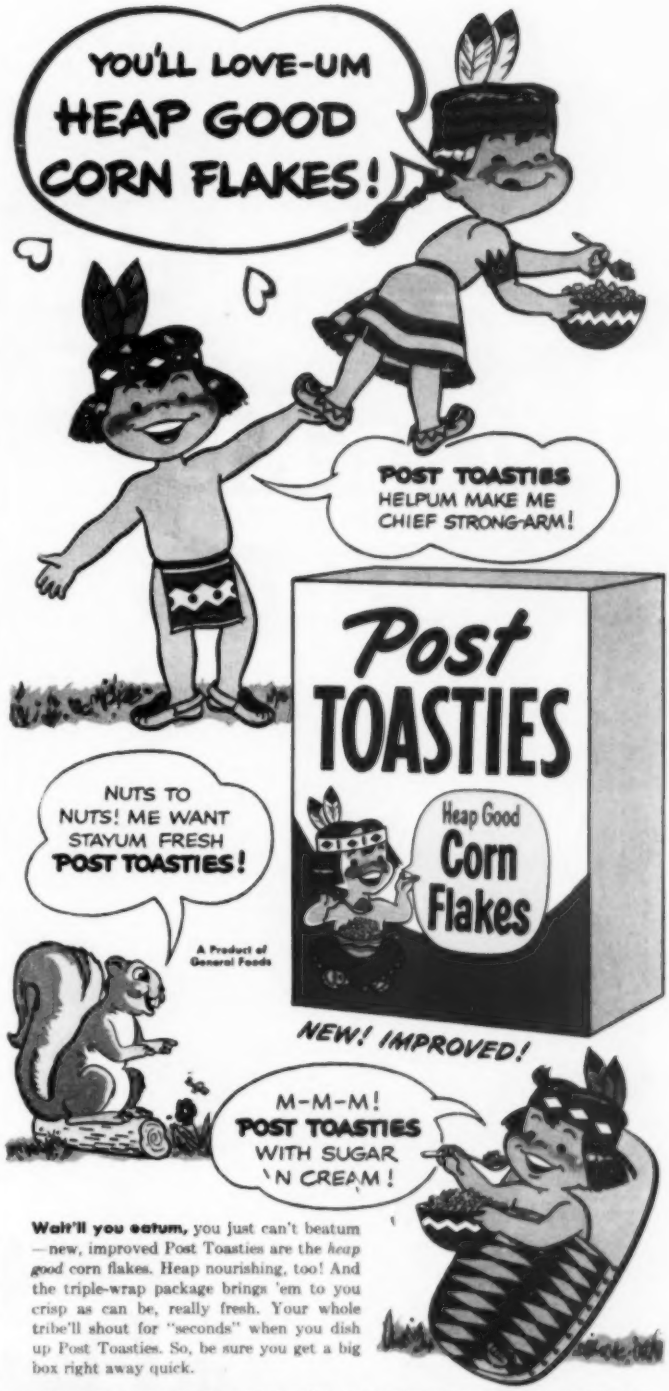
3 When you go in and out of cars, rooms, and buildings, do you
a. Wait for the boy to open the doors?
b. Open most doors yourself to save the trouble?
c. Reach for the knob and hope he outreaches you?

4 "Oh, whatever *you* want to do," he says, when you're starting out for the evening. Do you
a. Say you don't care when you do have something in mind?
b. Suggest the really big evening you've long been hoping for?
c. Give two or three different ideas and let your escort choose?

5 If you've an eight o'clock date with dressing time to spare, do you
a. Rush breathlessly to the door at eight sharp?
b. Allow at least a half-hour to be ready on time?
c. Show your independence—keep him waiting 15 to 20 minutes?

6 When double-dating with one of your good friends, do you
a. Keep the conversation light and four-way?
b. Continue the conversation you started during an afternoon party?
c. Play coquette with your friend's date—all in the family? Besides, what better way to meet new men?

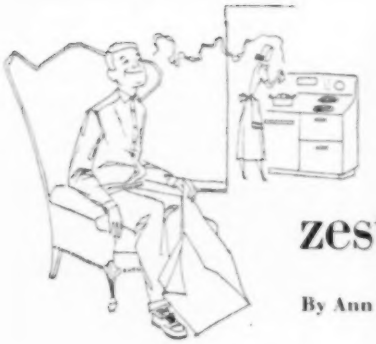
Answers on page 94



Wah'll you eatum, you just can't beatum—new, improved Post Toasties are the *heap good* corn flakes. Heap nourishing, too! And the triple-wrap package brings 'em to you crisp as can be, really fresh. Your whole tribe'll shout for "seconds" when you dish up Post Toasties. So, be sure you get a big box right away quick.

BEST THING THAT'S HAPPENED TO CORN SINCE THE INDIANS DISCOVERED IT!

America's Best
in Flavor Tests!



Herbs add zest to meat

By Ann Gloe

Herbs give food a certain zest that's impossible to describe—a flavor that makes unseasoned foods taste flat by comparison. Even the plainest of everyday food gets a new lease on life when herbs are added.

Flavorings and seasonings are a matter of personal choice. The best combination of flavors for one person may not be the right one for you, hence the joy of cooking with herbs—the fun of experimenting.

When you first use herbs, it's wiser to use too little seasoning than too much. The trick, of course, is judicious tasting as you season. Remember, herbs should add to the deliciousness of the food and not overpower it! So go easy at first, until you find the right combination.

Use less dried herbs than fresh—they are more potent. Keep your dried herbs in a covered jar in a cool place. Replace them as soon as their freshness is gone.

The following meats, good in themselves, are extra special with the addition of herbs. Try them and then do some experimenting with herbs on your own. The chart below will help you find the herbs that go particularly well with each type of meat.

Lamb Chops

Serves 6

Combine **1 small onion,** grated
1 bud garlic, crushed
2 teaspoons Worcestershire sauce
½ teaspoon salt
4 tablespoons chopped parsley
¼ teaspoon rosemary
¼ teaspoon savory
Cream in **⅓ cup butter**
Work to a smooth paste.
Spread over surface of
6 broiled lamb chops
Serve at once.

Pork Chops Baked in Sour Cream

Serves 4

Dredge . . . **4 loin pork chops,** cut ½ inch thick, in
½ cup flour mixed with
½ teaspoon salt
⅛ teaspoon pepper
Insert . . . **1 whole clove** in each chop
Brown lightly in **hot fat.**

[*Turn to page 92*

Beef	Pork	Lamb	Veal	How to use
Basil	Basil		Basil	Sprinkle lightly with herb before cooking
Marjoram	Marjoram	Marjoram	Marjoram	Sprinkle meat with herb before roasting
Savory	Savory	Savory	Savory	Garnish with herb before serving
Thyme	Thyme	Thyme	Thyme	Rub meat lightly with herb before cooking
Rosemary	Rosemary	Rosemary	Rosemary	Rub meat lightly with crushed herb before placing in oven, use ½ to 1 teaspoon
Sage	Sage	Sage	Sage	Rub meat lightly with herb before cooking
	Oregano	Oregano	Oregano	Rub meat gently with dried herb before cooking, using 1 to 2 teaspoons
Bay leaf		Bay leaf		Put 2 bay leaves in bottom of roasting pan
Chervil		Chervil	Chervil	Sprinkle lightly with 2 tablespoons chopped chervil just before serving

Hate to tackle **crusty** pans?

BRILLO
soap pads—
TWICE the SHINE
in half the time!

A square metal-fiber Brillo *pad-with-soap whisks* pans bright! Tests *prove* Brillo outshines all other types of cleansers tested. Gives aluminums *twice the shine in half the time!*

RED BOX—*soap-filled pads*
GREEN BOX—*pads plus cake soap*

THRIFTIER—5 AND 12 PAD BOXES

New improved Brillo lasts longer!

Your doctor knows why hot Quaker Oats is best for babies 3 months and older

Doctors have always known Quaker Oats is high in life-giving protein. Now—a leading University has proved Quaker Oats even richer in this body-building protein than well-known "baby" cereals!*

Quaker and Mother's Oats are the same

Yes, Mothers—your doctor can tell you how hot Quaker Oats benefits baby as well as the rest of the family. Now, University tests on protein prove that Quaker Oats is better for body growth than 14 nationally known cereals—including two well-known "baby" cereals!

Begin Oatmeal Feeding at 3 Months

Creamy-delicious Quaker Oats may be fed to baby as early as 3 months. It's easy to make. Just use a double boiler, following directions on the package. Then oatmeal is made for the whole family! And Quaker Oats' rich protein benefits youngsters and adults alike.

Remember, nourishing hot Quaker Oats costs less than 1¢ a serving. Get a package today!

**Results published on Page 163, Vol. 16, No. 2 of "Food Research," a nationally known scientific journal.*

QUAKER OATS

The Giant of the Cereals

Herbs add zest to meat

[*From page 91*]

Place in 6x10-inch baking dish.
Combine **½ cup water**
½ bay leaf
2 tablespoons vinegar
1 tablespoon sugar
½ cup sour cream
¼ teaspoon savory
Heat and pour over pork chops.
Cover and bake at 350° for 1 hour.
Serve at once.

Steak Basted With Herb Sauce

Serves 2

Combine **1 tablespoon olive oil**
1 teaspoon red-wine vinegar
½ teaspoon thyme
¼ teaspoon rosemary
¼ teaspoon salt
⅛ teaspoon pepper
Heat basting liquid.
Broil **1 porterhouse steak,** cut 1 inch thick, about 2 inches from heat
Baste with liquid while broiling.
Keep liquid hot, but don't allow to boil away.
Broil top side until meat is browned and half done.
Turn and broil second side until done; turn only once.
Continue basting until steak is done.
Serve at once.

Meat Balls and Spaghetti

Serves 4 to 6

Combine **1 pound ground beef**
1 onion, grated
½ cup soft bread crumbs
1 well-beaten egg
1 teaspoon salt
1 tablespoon chopped parsley
¼ teaspoon thyme
¼ teaspoon basil
Mix well; shape into balls 1 inch in diameter.
Brown on all sides in
¼ cup hot fat
Pour off fat.
Add **¼ cup water**
Cover and cook slowly for 20 minutes.
Serve with **spaghetti.**

Spiced Veal

Serves 8

Rub **4-pound veal rump** with
1 clove garlic, minced
1 red pepper, diced
Sprinkle with:
1 teaspoon salt
⅛ teaspoon pepper
⅛ teaspoon ground mace
⅛ teaspoon ground cloves
¼ teaspoon allspice
Combine and rub well into meat:
½ teaspoon thyme
½ teaspoon sage
2 bay leaves, crushed
¼ cup flour
Brown veal in **hot fat.**
Saute **1 onion,** minced
4 carrots, sliced
2 celery stalks, diced
Add meat to browned vegetables.
Add **½ cup boiling water**
Simmer slowly 2½ hours, or until tender.
Thicken liquid for gravy.
Serve on hot platter. **END**

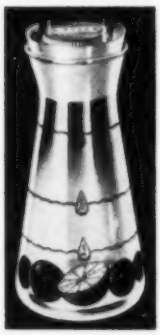
New in homemaking

[*From page 28*]

Spacesaver shelf, easy to hang where needed, is handy for utensils, dishes, radio, or books. Made of heavy-gauge steel, it is 24 inches long, 12½ inches high. Shelf widths: top, 5 inches; bottom, 8 inches. Hooks hold cups, pot holders, or

cutlery. Baked-enamel finish in all white or white with red, yellow, or black sides. Slotted for 2- or 4-hole wall mountings. $3.49 plus postage. Shipping weight 5 pounds.—*Werner Workers, Willowbrook Woods, Prairie View, Illinois.*

Juice jug, new quart-size Pyrex container, is designed for mixing, storing, and serving frozen juices, and for serving both hot and cold beverages. Its shape makes it easy to pick up, prevents accidental tipovers. Markings on the side save time in measuring 1-, 1½-, and 2-pint quantities. Painted design is bright orange color. Self-sealed stopper keeps air and odors out. At department, hardware, gift stores, $1.98.—*Nesco, Inc., 201 N. Michigan Ave., Chicago, Illinois.*



Salad set of imported mahogany is finished with special sealer to protect the wood from food acids and soaps. According to the manufacturer, it can be washed

like dishes. The set—10-inch bowl and matching hand-carved fork and spoon—is guaranteed. Costs $12 at gift or department stores, or, with postage to cover 3 pounds, from *Munising Wood Products Co., Inc., 666 Lake Shore Drive, Chicago, Illinois.*

The bed is made with PEQUOT sheets, It waits the guest she fondly greets

A bed made up with any one of the *four* fine quality grades of Pequot sheets and pillowcases, is a "homey" hospitable touch. For your dearest friends (and your own bed) we recommend Pequot "Premiumcombed" Percale, our best percale and a *true* percale—more than 200 combed threads to the inch. First quality throughout, to be sure you and your guests enjoy the utmost in soft, smooth comfort. In white and six beautiful colors.

Pequots are now packed in the new, sanitary cellophane package — look for them at your favorite store.

There's a Pequot Quality Sheet...

AT THE PRICE YOU WANT TO PAY

PEQUOT PLUS-SERVICE—more than 144 threads to the inch, our famous, best quality muslin. Woven, *double-tape* selvages (an exclusive Pequot feature). The best buy for long wear and *true* economy. In white and six colors.

SALEM—more than 130 threads to the inch. Our lightweight muslin, featuring excellent quality and popular price. In white and five glowing colors.

PEQUOT MEDIUM PERCALE—more than 180 threads to the inch—our low cost, luxury sheet, in white and six pastel colors.

ALL Pequots have the exclusive, *patented*, colored projecting size tab for easy identification on your linen shelf.

Write for *free* booklet, "How to Buy and Care for Sheets". Dept. S-2, PEQUOT MILLS, SALEM, MASS.

See the Pequot exhibit at the "Home Planning Center" in your favorite store!

"The Nation Sleeps on PEQUOT SHEETS"

Listen to Pequot presents *"Paula Stone and the stars"* coast-to-coast. Mon-Wed-Fri. Consult your local paper for time and station.

Revolutionary new

1952 PHILCO

PHILCO RANGE 428

—most advanced automatic Electric Range of all!

QUICK-SET AUTOMATIC TIMER
One knob for cooking time, the other for serving time. Set — forget!

BUILT-IN JIFFY GRIDDLE
Equal to 2 extra cooking surfaces

BROIL-UNDER-GLASS
Smokeless broiling . . . no soot, no stain

Does more of your work automatically than ever before. Philco—only Philco—gives you the sensational Quick-Set Timer, Built-in Jiffy Griddle, and Broil-Under-Glass. Plus thermo-color controls . . . faster heating surface coils . . . huge automatic banquet oven . . . deep-well cooker . . . styling that compliments any kitchen!

8 new for '52 models—$189.95 to $419.95

PHILCO *Famous for Quality the World Over*

How's your dating know-how?

[*Questions on pages 88 and 89*]

Answers: boys

Take a good look at yourself if you missed more than one of the questions—you may be a poor date.

1 (a) It's good manners and you'll be none the worse for it unless you're on shaky territory anyway.

2 (b) If you follow the usher, she may get lost in the shuffle. And aisles are pretty narrow to two-by-two.

3 (a) The open-and-close procedure might seem like a nuisance, but it is easier for her and a welcome attention.

4 (c) Let her choose. Don't risk putting a hothouse flower in a duckblind, or teetery heels in a square dance.

5 (b) Her parents are probably pretty nice, but they won't think you are if you hide behind the paper or wake the baby.

6 (b) This will save your pocketbook and her embarrassing hesitation.

Answers: girls

If you missed more than one of the questions, you'll need some brushing up to be a real smoothie.

1 (b) It's simple to say, "What do you think you'll have?" Saves a mighty squeeze on the pocketbook and you'll be helping the fellow out of an embarrassing moment.

2 (c) If there is no usher, you might suggest to your date to walk ahead and find seats while you follow. If there is an usher you go first, followed by your date.

3 (a) Sure, you can open them yourself, but give him a chance to display his manners. He may want to.

4 (c) If he has a choice, he can suit his taste, his allowance, and his girl friend in one fell swoop.

5 (b) Be dressed, cool, and collected when he comes. Don't act as if he's the first boy to call, but do make him feel welcome.

6 (a) It's too easy for people who know each other well to exclude others from a conversation. Don't be guilty of this kind of rudeness!

Equipment, accessories and trim illustrated are subject to change without notice.

Drive it Yourself—

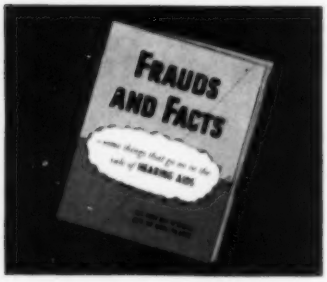
the Great New '52 Pontiac

Get behind the wheel and drive! That's the *only* way in the world to know how great Pontiac's *Dual-Range** performance really is. At the flick of a finger you can choose your power: Nimble, eager pep for relaxed driving in heaviest traffic—or smooth, easy-going, economical cruising when you're on the open road. Driving a new Pontiac is like having *two* power plants at your finger tips!

See your Pontiac Dealer—Drive a Pontiac yourself and discover new proof that DOLLAR FOR DOLLAR YOU CAN'T BEAT A PONTIAC!

**Optional at extra cost.*

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION



This free book may brighten the life of someone you love...

may save him $100 or more!

Perhaps some loved one is hard-of-hearing, but hesitates acquiring a hearing aid because of confusion and suspicion about conflicting claims. That person will bless you for the *truth* contained in Zenith's new book, "Frauds and Facts" —published to save the hard-of-hearing disappointment and needless expense.

Zenith urges the hard-of-hearing to buy *no* hearing aid until they read "Frauds and Facts." Then, if their physician suggests a hearing aid, there's a Zenith dealer nearby.

HEAR BETTER OR PAY NOTHING

We believe, as we say in "Frauds and Facts," that no hearing aid need sell for more than $75! Here's Zenith's ironclad guarantee: "If, in your opinion, any $200 hearing aid outperforms in any way a $75 Zenith, you get *your money back* under our unconditional 10-day return privilege."

Send today for Zenith's Free Book—

The coupon below will bring "Frauds and Facts," postpaid, in a plain envelope, to anyone you wish. *Consult classified telephone directory for local Zenith Hearing Aid dealer.*

ZENITH ROYAL HEARING AID

$75 (Bone Conduction Devices available at moderate extra cost)

Tiny, light-weight, in beautiful golden finish . . . with Permaphone, reserve battery switch, fingertip tone and volume controls! See also the extra-powerful Zenith "Super Royal." Same fine features, same low price.

ZENITH®

HEARING AIDS

The Royalty of Hearing

By Makers of World-Famous Zenith Radio, Television and FM Sets

Zenith Radio Corporation,
Hearing Aid Division, Dept. 449
5801 Dickens Ave., Chicago 39, Illinois

Please send me free copy of "Frauds and Facts." I understand it in no way obligates me.

Name _____
PLEASE PRINT

Address _____

City _____ Zone _____ State _____

Living is an art

[*From page 42*]

so little for young people to do around Erwin, she began teaching these skills to high-school boys and girls. This group has grown and spread its enthusiasm among all ages for such work as leather tooling, silvercraft, finger and peasant painting, metal carving, and ceramics.

Two years ago they raised money to bring Mr. and Mrs. William Bunning of Colorado Springs, Colorado—teachers in arts and crafts—to Erwin for a series of lessons "open to the public." A success? The response is shown by Mr. Bunning's remark, "An average of 60 people came to each session. They ranged in ages from 8 to gray-haired grandmothers. People drove from a radius of 50 miles, and they wound up with 211 projects!"

The lessons went on after the Bunnings left, with the most expert person taking over instruction. Now Friday evening is "crafeteria night." People in and around Erwin open their homes for family crafts sessions. Each family brings its own materials and shares ideas and know-how.

"Many people had never tried to design or create with their hands," Mrs. Sorenson says. "These sessions are bringing out all sorts of hidden talents."

On Saturday evening the high-school assembly in Erwin is crowded almost to bursting. Girls dressed in colorful peasant skirts and their partners in jeans burn up excess energy as they swirl across the floor. Sometimes it's square dancing. More often, it's the graceful Norwegian folk dances which Mrs. Sorenson has revived. There is such a contagious atmosphere of informality that it's impossible not to relax and shuck off troubles.

These play nights have led to remarks from the teen-agers: "Our town doesn't need a youth canteen. We're too busy for one." And from the parents: "We're no longer plagued by the children's asking to go long distances to public dances. They don't want to miss the fun here."

A firm believer in the need for recreation and fellowship in farm communities, Mrs. Sorenson has reached outside her home community to become one of the country's leading champions of recreation and arts and crafts. For one thing, she helped found the popular recreation laboratories in the Black Hills, Idaho, Nebraska, Wisconsin, and New Mexico. Around 130 volunteer leaders from farm communities the country over gather at these yearly sessions to learn and share ideas on program planning, recreation, and peasant art.

Members of her own youth groups often go to other communities to help organize play nights and craft groups.

"Basically, everyone is hungry for variety in his life," is Mrs. Sorenson's firm belief. "For simple, everyday fun shared with friends. And the desire to express oneself in some way is basic to human nature. If you find and cultivate a talent, it grows and is richly rewarding."

Useful furniture made from discarded materials is popular project. Here, Glen Hassebroek completes a lamp of his design

Musical talents such as Rosene Johnson's are shared. Get-togethers usually end with singing and playing around the piano

Smorgasbord with a proud display of handicrafts never fails to attract a crowd. Alvida's enthusiasm for crafts has spread to other communities through hobby and craft shows put on by older rural-youth group in high schools, churches, and farm groups. **END**

GET SET
for Summer!

Install

AMERICA'S FAVORITE

CHAMPION

SPARK PLUGS

You get far more than gentler bleaching with CLOROX

It's a 4 in 1 product!

1 AN *extra-gentle* BLEACH

For whitening and brightening white and color-fast cottons and linens *extra-gently* there's nothing quite like Clorox! It's free from caustic and other harsh substances . . . made by a patented formula *used only by Clorox!*

2 A *dependable* STAIN REMOVER

Practically all stains on cottons and linens – and on kitchen and bathroom surfaces – can be removed with Clorox. Just follow the stain removal instructions on the Clorox label.

3 AN *effective* DEODORIZER

Even freshly-laundered linens can have a musty smell. But not when they are Clorox-clean! Clorox deodorizes . . . whether you use it in laundering or in routine cleaning.

4 *In addition* CLOROX is one of the world's great DISINFECTANTS

A Clorox-clean home is a *safer* home for every member of your family! That's because Clorox disinfects . . . and disinfects better than any other product of its kind . . . actually *kills germs quicker!* So to help protect family health, use Clorox . . . in laundering, in cleaning. See directions on the Clorox label.

You get all 4 in 1 with

CLOROX

AMERICA'S FAVORITE

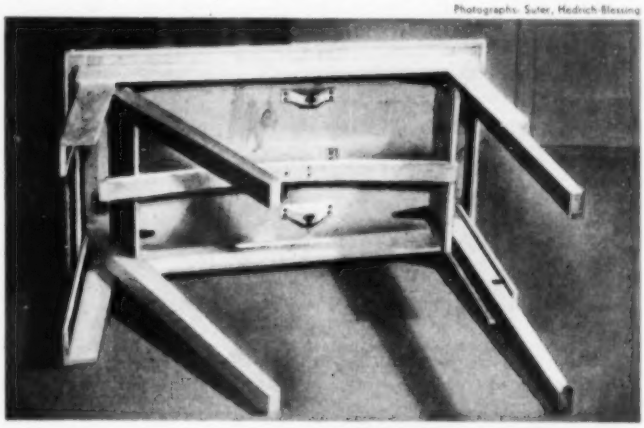
CLOROX-CLEAN *means* ADDED HEALTH PROTECTION!

The Foxes built their own two-way tables

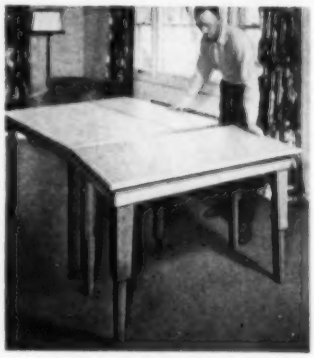
Lorene and Morris Fox dine at table Morris made of solid birch with a ¾-inch birch plywood top. Table, as shown, will seat four; with drop leaf up, eight. Note rollers for easy moving. Table is usually in kitchen opposite the big refrigerator (see page 51)

Morris Fox built this coffee table (24" x46"x18") to match table at left. Although usually used as shown, it has hidden versatility — concealed legs that raise it to 30", the height of dining table. See the picture below for construction details.

Photographs: Suter, Hedrich-Blessing



This underside view of the coffee table shows construction details and the method employed to raise the table to dining height. The 30" legs operate on hinges and rest securely beneath table top when not in use. As legs are brought down into use, crosspieces between the legs slip into slots on the bowed center strip, which is under tension. This holds the legs firm, straight



Mr. Fox shows how the two tables go together to make one large dining table that comfortably seats 12. The tables are set up at one end of 12'x22' living room when there are guests. Thus the Foxes have managed convenient dining space without the cost of adding a specific dining area

NEVER TRUER THAN TODAY

The finest Sewing Machine you can buy is a sure-stitching **SINGER** !

FINEST IN DEPENDABILITY AND SERVICE

When you buy a SINGER* Sewing Machine, you'll never have to worry about how long it will "stand up."

For every SINGER is . . .

- Built to last a lifetime.
- Built by world's most experienced sewing-machine craftsmen.
- The only machine that has *proved* its reliability for 100 years!

And wherever you move, you can always get service. A fleet of 5000 SINGER Service Cars and 1200 SINGER SEWING CENTERS are ready to serve you.

Sewing course under SINGER experts included with machine.

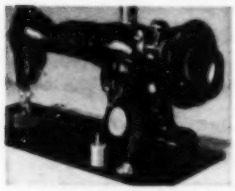
Come see the new models. See why you'll sew your best on a SINGER!

FINEST IN STITCHING FEATURES!

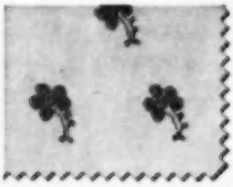
Only SINGER has all these beautiful-sewing advantages!

• **Hinged presser-foot.** Lets you stitch fabrics of any thickness without bunching. Sews right over pins, saves hours of basting.

• **Sew forward or back** at the flick of a lever. Handy for end-tacking seams. Sturdy SINGER* Motor permits smooth stitching at any speed.



• **Automatic bobbin winder** winds bobbin *as* you sew. Stops automatically when full. You'll also like SINGER's direct-route threading, nonglare light.



• **Clever fashion stitches** without attachments. Easy on a SINGER! See them, learn them *free* at your SINGER SEWING CENTER.

• **PRICES FROM $89.50**

• **BUDGET TERMS** • **LIBERAL TRADE-IN ALLOWANCE**

FINEST IN LOOKS

The minute you see a SINGER, you "sense" that it's rightly designed, sturdily constructed, a truly beautiful piece of furniture . . . built to last as long as the smooth-stitching machine inside.

Compare with any other make . . . you'll see that SINGER offers by far the most beauty for your home!

- Wonderful, wide choice of modern, colonial, period styles. Compact portables, too.
- Every cabinet built of fine wood, finished to satiny perfection in walnut, mahogany, or blond oak.
- Attractive matching stools available. Leatherette cushions with handy notions compartment underneath.

DON'T BE MISLED!

***SINGER sells and services its products only through SINGER SEWING CENTERS identified by the Red "S" Trade Mark on the window, and listed in your telephone directory under SINGER SEWING MACHINE COMPANY.**

At left is the SINGER SEWING CENTER at 235 South Elm St., Greensboro, N. C. For address nearest you, write SINGER SEWING MACHINE CO., Dept. S-29, 95 Liberty St., N. Y. 6, N. Y.

SINGER SEWING CENTERS

THERE'S ONE NEAR YOU TO SERVE YOU

*A Trade Mark of THE SINGER MANUFACTURING COMPANY. Copyright, U. S. A., 1962 by THE SINGER MANUFACTURING COMPANY. All rights reserved for all countries.

Electronic marvels for defense

... by the makers of your Bell telephone

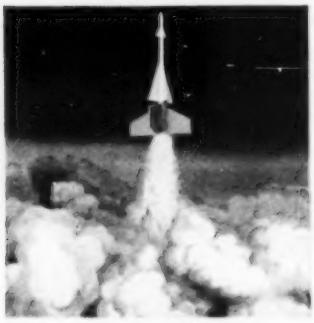
Radar fire control systems for the Navy's biggest guns.

Radar fire control systems for the guns that guard our skies.

Radar bombing systems for America's biggest planes.

Radar fire control systems for naval anti-aircraft guns.

Multi-channel radio sets for military aircraft of all types.



Electronic control and firing systems for the latest guided missiles.

ELECTRONIC "BRAINS" that direct guns, bombs, and guided missiles to the right target call for much the same production techniques we use in making the electronic "brains" that guide your dial telephone call to the right number.

THAT'S WHY Western Electric, with 70 years of experience as manufacturing unit of the Bell Telephone System, has ready the highly specialized skills now needed to produce these electronic elements of our national defense. That's why Western Electric, with the help of thousands of subcontractors, large and small, is now turning out quantities of equipment for the Army, Navy and Air Force.

AT THE SAME TIME we are going full speed ahead on our regular job—making telephone equipment to help keep Bell System service going and growing.

Western Electric

A UNIT OF THE BELL SYSTEM SINCE 1882

Short for spring

We're following the dictates of the fashion world this season—and short is the big news in coats. Tiny waist-length jacket coats, short toppers, and hip-length coats have proved to be the most popular junior-size styles.

The two coats shown on this page were made from the same Advance Pattern. Hip-length or topper style, the coats are leaders in the spring fashion parade. The casual look is there in the swing back and convertible collar—but add a perky hat and white gloves and the toppers take on a sophisticated air. With their flare-back beauty, the styles will go over everything in your spring wardrobe. It's an easy-to-sew pattern and even the newest seamstress will be able to turn out a professional-looking garment.

Back views, yardages on page 102

5446

Topper style with welt pockets and stitched cuffs will please the petite miss. High shoulder dart trims coat front with fullness released in the back. The single-button-closing neckline is attractive buttoned high or opened for casual comfort.

5446

Hip-length coat is an all-season style. In a lightweight fabric, it is a perfect spring style, but in all-wool material with a warm lining, it becomes a cool-weather shortie. The coat has tall-girl flattery and slenderizing lines in any season. ➔

Your washer is a joy for dyeing

with RIT it's done without half trying

Now you can dye big, bulky things like rugs, draperies, slipcovers as easily as you dip your lingerie. Just pop them in your washer with All Purpose Rit and out comes a whole new world of color for your home. You can even get dark shades like Scarlet or Royal Blue with just hot tap water! Your washer's constant agitation . . . plus the fine dye that's in Rit . . . does it!

The finest dye . . . . . and only 25¢

All Purpose RIT

RIT PRODUCTS CORPORATION
1457 W. Morris St., Indianapolis 6

Born to make light work of all your ironing...

General Mills Tru-Heat Iron

Here's one lightweight iron that never loses it's easy glide!

New Tru-Heat Control Gives you right temperature for every fabric. The electric range-type Permarod unit heats quickly, evenly. Lasts for years.

Safety side rests Roll iron to rest on its side. Less danger of toppling.

New light weight Imagine an iron weighing only 3 lbs., 2 oz. with a permanently scratch-resistant soleplate. Made of chrome-plated hard metal . . . not aluminum!

It's the shape that makes the difference Famous tapered heel lets you iron backward as easily as forward . . . extra-large ironing surface covers more ironing with every stroke.

Take a long, hard look at this General Mills Tru-Heat Iron . . . Count up all its different, outstanding features. See if they don't add up to the best reason in the world for getting a new iron now! **$14.95**

Valuable coupons given Iron comes with 40 coupon values for Queen Bess Pattern Silverware or Betty Crocker Picture Cook Book.

sponsored by Betty Crocker

Your Tru-Heat Iron can be a Steam Iron instantly—with General Mills Steam Ironing Attachment

Now on display at your favorite store . . .

See it today!

Short for spring

[*From page 101*]

5446. Topper coat (view 2) requires 2⅛ yards of 54-inch material without nap for size 13 (31-inch bust). The lining is made from 2¼ yards of 39-inch material, also without nap.

In size 13, the hip-length coat (view 1) requires 2⅜ yards of 54-inch material without nap. The lining requires 2½ yards of 39-inch material without nap.

Both styles require ½ yard of 35-inch muslin for interfacing. Pattern comes in junior sizes 9 to 17. Price is 35 cents.

This Advance Pattern is available from local dealers or you may purchase it direct from Successful Farming *by filling in the handy coupon below.*

To: Successful Farming
4704 Meredith Bldg.
Des Moines 3, Iowa.

We enclose cash or money order in the amount of $..... for the following Advance Pattern:

☐ **5446** Size.....

Name.....

Address.....

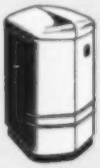
City..... State.....

Are you a bracelet showcase?

You who go in for bracelets with sound effects—tinkling charms, for instance—remember that they are fun in their element. But keep them out of the classroom, movies, church, and other places where silence is golden. When you're dressed in sportswear, wear your tailored jewelry. When you're going out for dinner or to a dance, wear jewelry with a "sparkle." A single strand of pearls is one versatile exception. It is equally at home with almost anything from a sweater to the most formal attire.

Saves You Money while it Saves You Work!

OIL-FIRED HI-FURNACES give complete winter air conditioning. Combine wall-flame oil burner, furnace with radiator, blower, air filters and automatic humidifier—all in one integrated space-saving unit. Lo-Furnaces, too.



GAS LO-BOILERS provide homes with all the benefits of modern gas heat at its clean, quiet, thrifty best. Entire unit is enclosed in one compact cabinet. Gas-fired furnaces, too!

WALL-FLAME OIL BURNERS are easily installed in warm air furnaces made of either cast-iron or steel. Advance-designed wall-flame heating method assures quiet, thrifty operation. Also fits all types of boilers. Gas conversion burners, too.

Farm Home Modernization Begins with Thrifty, Dependable

TIMKEN *Silent Automatic* HEAT!

Here's long-range home modernization that pays for itself over and over again! Install work-saving, money-saving Timken Silent Automatic Heat now and devote your furnace-fixing time to more profitable tasks!

The thrifty *wall-flame* heating method is unsurpassed for clean, convenient home comfort. This finest of all automatic heating equipment operates with such quiet dependability you'll never even give it a thought! Installed by factory-trained experts, every Timken Silent Automatic heating unit is backed by more than 25 years devoted to producing the finest automatic heat money can buy. What's more, you'll be pleased by the sensible prices—and budget terms, if desired.

Join the hundreds of thousands of satisfied users—farm and city folk alike—who are enjoying an easier, happier home life with Timken Silent Automatic Heat. Phone your nearest Authorized Dealer today! He'll be glad to give you a free survey and estimate.

TIMKEN
Silent Automatic
HEAT
OIL · GAS · COAL
TIMKEN SILENT AUTOMATIC DIVISION
The Timken-Detroit Axle Company • Jackson, Michigan
The Timken-Detroit Axle Company of Canada, Ltd., Toronto, Ont.
Accepted Standard
TRADE MARK REGISTERED

93 models of oil-fired and gas-fired furnaces, boilers and oil and gas conversion burners from which to select the *right* model for your home. Gas models now available for use also with LP gases.

Science in the Barnyard

By DR. HESS

Brightest spot on the hogman's horizon is antibiotics, which are being used so effectively in improving the health and stepping up the growth of young pigs. Even runts react favorably . . . shoot right up to become husky heavyweights in a hurry! Based on the splendid results we've had at our Research Farm, we added antibiotics to our Hog Special, calling the improved formula Enriched Hog Special. In addition to antibiotics, it also contains essential minerals, vitamin B12, riboflavin, and niacin. Enriched Hog Special puts curl in a pig's tail, meat on his frame, more money in the hogman's pocket.

Cow hands along the Rio Grande are getting tired of the sight of blood and the smell of burning flesh that go with removing horns. At any rate, quite a few ranchers tell us that they're now using **PÖL**, our new chemical dehorner; it's becoming standard saddle equipment for men riding the range. One Texas rancher told us he tried **PÖL** cautiously last year, using it on two calves. Results pleased him so well, this year he's dehorning his entire calf crop with **PÖL**.

"One-stop service" makes sense in raising sheep as well as in taking care of the family car. You'll save time this spring by worming your sheep when you shear them. Then you won't have to handle them a second time. The best wormer known is phenothiazine; the Dr. Hess brand—PTZ—is the largest selling brand of phenothiazine on the market. PTZ kills six types of worms, including stomach and nodular worms. It's available in pellets and as powder for making a drench or adding to feed.

The dread killer, coccidiosis, is no longer a menace when treated right. We have demonstrated in many trials at our Research Farm that coccidiosis can be prevented, without stunting chick growth or producing culls. The magic remedy is nitrofurazone (we've shortened the word to NFZ) added to starting mash. Flockowners can buy NFZ for use in their chick mashes, or buy commercial feeds medicated with this very effective, economical drug.

DR. HESS & CLARK, INC.
Ashland, Ohio
Scientific *Farm-aceuticals* Since 1893

"Guess they didn't have PÖL when he was a boy."

Beef production is easy with push-button feeding

[*From page 39*]

supply tank from a drilled well under the barn.

Almost 500' of feed-moving augers were installed over the bunks to move the feed automatically. The augers are enclosed in a wooden housing running from the feed room.

A feed-preparation room, 15'x32', was built into the front corner of the barn nearest the corn storage. Here, all the feed the cattle eat is ground together in one mixture.

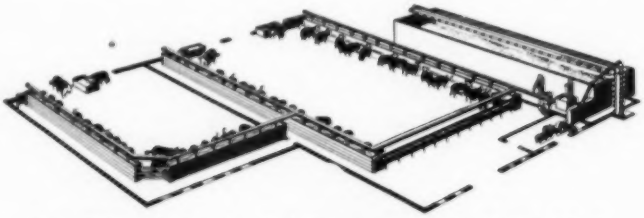
Cattle start out on the Schoonover farm with oats, but are soon shifted to corn. Here's what they are fed: At the start they are metered a ration containing 75 percent shredded hay and 25 percent ear corn, all ground together. The proportions are changed as the feeding proceeds until the steers finish on a mixture containing 80 percent grain and 20 percent hay, plus supplements.

The cattle get a pound per head per day of either cottonseed or soybean oil meal, depending upon price. Salt blocks containing trace minerals are kept before the cattle at all times.

Most of the hay fed is an alfalfa-bromegrass mixture produced on the farm. A stem crusher shortens field hay-drying time. All hay is finished with a baled-hay forced-air-drying system. Few leaves are lost. In feed preparation, the bales are run through a shredding machine consisting of six 24" circular saw blades. From the shredder, the hay joins the grain as it drops into the hammer mill.

The corn storage holds 40,000 bushels—enough to feed and finish 700 steers.

[*Turn to page 100*]



Over-all drawing shows how the feeding system is laid out. All the feed for the cattle is carried to them by the auger system. Three men spend an hour each day feeding over 400 head of steers. The work consists of stopping and starting motors

Air tunnel in corn storage runs length of building. Dragline in the bottom of tunnel is used to empty storage building by dumping corn back into unloading pit at end of building

◆ **Steers drink** out of huge watering trough. Trough is fed continuous stream of water from an overhead trickle tube. The water is pumped from shallow well located at the main barn

"Baling-est" machine you ever saw!

Use any measure . . . speed, ease of operating, cost per bale . . . you'll find no other automatic baler to top the Oliver No. 8.

None can beat it in tons per day—the only true measure of baling speed.

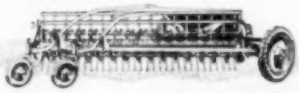
None can match its simple operation—you thread for wire tying in less than five minutes!

As for cost, you can *see* your savings on every bale. The No. 8 ties a knot averaging only 1½ inches in length . . . you save footage, *and dollars* all season long. The knot is turned in, toward the bale . . . there are no ends to snag you.

Now look at the bales themselves. The No. 8 makes them *uniform*, never lumpy or lopsided. It makes them in *sliced sections*, easy to separate at feeding time.

For the baling-est machine you ever saw—see your Oliver Dealer! The Oliver Corporation, 400 West Madison Street, Chicago 6, Illinois.

To Complete Your Haying Team **. . . nothing could be finer than an Oliver Mower and Side Delivery Rake. The Mower's many features—sturdy frame, oil-immersed transmission, safety clutch and bar release—assure quick, easy cutting season after season. (Easier still with an Oliver Tractor, and the Direct Drive Power Take-Off!) For clean-swept fields, no other rake can match the Oliver Side Delivery . . . it's the only rake made with a four-bar reel.**



OLIVER

"FINEST IN FARM MACHINERY"

The Oliver Corporation, FS-4
400 W. Madison St., Chicago 6, Ill.
Please send the illustrated booklets I have checked:
☐ No. 8 Baler ☐ Power Mower ☐ Side Delivery Rake
Name.....
Address.....
City..... R.F.D..... State.....

fight weeds in wheat!

A lot depends on the weed killer you use! Dow makes the most effective and most economical weed killers you can buy—a complete line of *proved for the job* products to fit the weed, the crop and the problem. If it's weeds in wheat—your dealer has an interesting story to tell you about the "Big 3"—developed by Dow specifically for weed control in small grains such as wheat, rye and barley. Ask about—

1 ***FORMULA 40***—a fine 2,4-D amine salt formulation for low-volume spraying with airplane or ground equipment . . . gives satisfactory control of many common weeds.

2 ***ESTERON® 44***—an excellent 2,4-D ester product which has proved its worth on thousands of acres—useful also for spraying grain stubble for after-harvest weed control.

3 ***ESTERON TEN-TEN***—*New* formulation containing powerful propylene glycol butyl ether esters of 2,4-D . . . thoroughly tested and proved superior for such hard-to-kill weeds as thistle and wild buckwheat.

All Dow weed killers are formulated to give you trouble-free spraying (no clogging) in hard or soft water. Always consult the label for detailed dosage and application instructions.

Ask your dealer for

DOW WEED KILLERS

Use Dependable Dow Agricultural Chemical Products

- Weed, Brush and Grass Killers
- Insecticides
- Fungicides
- Plant Growth Regulators
- Grain and Soil Fumigants

THE DOW CHEMICAL COMPANY
Agricultural Chemical Department
MIDLAND, MICHIGAN

DOW
CHEMICALS
INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Push-button feeding

[*From page 104*]

It's a sort of glorified refrigerator. In addition to drying, its four huge drying fans pump cold air through the corn in picking season to keep the corn at about 40 degrees, thus holding mold to a minimum while the corn is drying.

An overhead winch was built at the front of the corn storage. The front wheels of the wagon or truck are placed in a stirrup and the bed emptied by lifting the front end. The corn dumps into a large, funnel-shaped pit and is lifted by a bucket conveyer to an overhead conveyer belt. This belt carries it to any section of the storage.

An A-shaped air tunnel high enough for a man to walk through runs along the bottom of the storage. It has a trough bottom with a drag-link conveyer. Trap doors line each side of the tunnel, and the corn can be emptied from any section simply by opening the door. The corn spills into the trough and the conveyer takes the corn and dumps it into the pit at the end of the storage.

> **Acquaintance: A person whom we know well enough to borrow from, but not well enough to lend to.**
> —*Ambrose Bierce*

Here it is elevated again by the same bucket conveyer, but this time the grain is shunted to the feed-preparation room. Now the corn travels over magnetic pulleys which catch any metal parts and throw them out automatically. Next, the ear corn goes through a crusher and drops into the hammer mill, joining the shredded hay.

As this mixture comes pouring out of the hammer mill, it is blown into a large, overhead bin which tapers down to a narrow crotch containing a 6" auger. The material is fine enough to pass through a 1" screen. There's a dust collector at the top of this bin. The auger runs from this supply bin out to the feeding court. It's enclosed in a continuous, wooden 8" square box. Gear housings are necessary every 10 feet.

The auger box has openings or drops on the bottom side every few feet. Each of these has a length of 6" metal pipe to which is attached a piece of material resembling a mill bag open at both ends. The bottoms of these bags come to the top of the manger.

The back of the manger is solid wood and the front has a wooden frame faced with heavy canvas sheeting, hinged at the top. There is a continuous slot at the bottom for feed to move out into the bunk as the cattle eat. Cattle soon learn to bunt the canvas to get more feed out into the open. The cattle side of the bunk is V-notched to keep the stock from crowding sidewise.

During feed grinding and feeding, the finished mixture moves down the auger channel to the first drop. Here it spills out, filling the manger at that spot. The hanging sack and metal outlet fill up and thus close off that outlet. So the feed moves on to the next drop. This continues until it reaches and fills the last drop, almost 150 feet straight down the row from the feed room.

When that happens, Farm Foreman Jay White flicks a switch from that corner of the barn which flashes a light in the feed room. This tells the man there to switch on the cross auger which will shunt the feed to the other side of the barn.

As these augers are run by different electric motors, the man in the feed room can turn off the right-hand auger and turn on the motor which runs the cross auger and the long auger on the left-hand side of the barn. The same bunk-filling process is repeated. Another auger branches off from this side to the other feeding shed. (See drawing, page 104.)

This auger has two universal joints built in it to raise it a foot or more. This side auger must be turned on at the proper time.

Each branch auger line starts just beneath the other line. When feed reaches the hole it drops on top of the next auger line and so on to the next.

The whole business is operated at the same time. The man doing the feeding doesn't even look at a shovel—he's just a watcher and "switch-flicker." The bunks hold enough feed to last one day.

One 3-hp motor runs the 130' auger on the same side of the barn as the feeding room. The 80' cross auger and the 125' feeding auger on the other side of the barn are run at the same time from one 5½-hp motor. Two other 3-hp motors run the 80' and 68' augers at the front and side of the smaller feeding shed. A diesel motor is used for power in the grinding room. **END**

Signpost points way to farms

To the stranger driving along a rural road, there's something mighty friendly and welcome about a signpost that helps him find the farm he's looking for. Signs such as these, erected by the Union Flats community of Whitman County, Washington, fairly shout community pride.

Boards have been nailed up where side roads take off from the main highway and at intersections of side roads. The distance from the post to each farm in the neighborhood is recorded.

ACTS FAST... SHORTENS SICKNESS...

Stops weight losses... Saves animals!

Easy-to-give, low-cost, all-purpose sulfa

SULMET*

SULFAMETHAZINE *Lederle*

A once-a-day treatment against

SHIPPING FEVER · FOOT ROT · CALF SCOURS · METRITIS
ACUTE MASTITIS · CALF DIPHTHERIA · BACILLARY ENTERITIS
OTHER BACTERIAL DISEASES and COCCIDIOSIS

Treat promptly! Use SULMET Sulfamethazine *Lederle*. Even a short delay in treating sick animals can cause serious losses in weight and stunting, which may be followed by death. Swiftly and effectively, this all-purpose sulfa goes into action to knock out bacterial infections. Once-a-day treatment may prove sufficient.

SULMET is also effective against many common diseases of horses, swine and sheep.

Time-proved SULMET Sulfamethazine *Lederle* is available in 6 dosage forms: POWDER, TABLETS, OBLETS*, TINTED EMULSION (for pink eye bacterial infections), SOLUTION 12.5% (for use as a drench, if desired), and INJECTABLE SOLUTION (by, or on the prescription of, a veterinarian).

Your veterinarian is your dependable ally in the constant war against disease. Consult him for the most effective management practices and disease-control procedures to meet your individual needs.

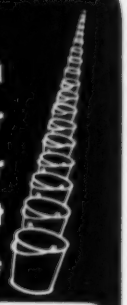
Free literature gladly sent upon request. *Reg. U. S. Pat. Off.

Animal Industry Section

LEDERLE LABORATORIES DIVISION

30 Rockefeller Plaza AMERICAN *Cyanamid* COMPANY New York 20, N. Y.

Banish your water bucket Brigade



Your time is valuable; if not in cash, at least don't waste it in plain old drudgery. A McDonald Water System will rescue you from the wearisome work of the well and bucket.

From coast to coast McDonald Water System owners have joined the ranks of freedom. Now water runs for them; in the house, barn, feedlot and poultry yard. In fact, they save time and effort wherever water is used.

Water running at a twist of your wrist will bring so many conveniences, you'll wonder how you ever managed without it. You owe it to yourself to learn more about McDonald's dependable and economical water systems.

You'll want full information on the complete McDonald line. Facts and figures will be supplied to help you decide on the system best suited to your needs. To add to your knowledge, McDonald's will supply a free booklet. Write today. Or contact your nearest McDonald dealer.

Just send a post card to McDonald, builder of dependable pumps for 96 years. Learn more about water system features that have pleased so many owners.

A. Y. McDONALD MFG. CO.
Dubuque, Iowa

Series 420 illustrated. McDonald pioneered the heavy brass stuffing boxes used. Its chromium plated bronze valve seats are an exclusive feature of McDonald's.

Pumps
Brass Goods
Oil Equipment

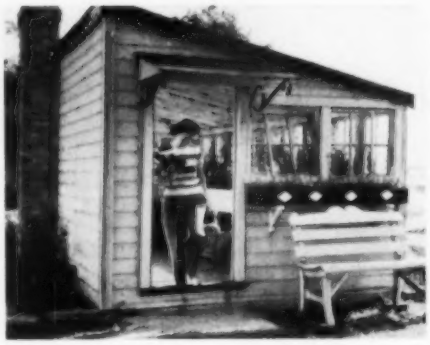
EST. 1866 McDonald

Handy trailer with many uses

The front axle of an old car makes a sturdy frame on which Paul Montavon, DeKalb County, Illinois, has built the low-down trailer pictured below. The axle is inverted, leaving only 18 inches of clearance between the floor of the trailer and the ground. Fencing is only one of the trailer's many uses. Montavon built it to haul water to hogs on pasture. Last summer he used it to pick up baled hay.

Photograph: Schneider

Brooder house into greenhouse



Donald and Elaine Price, McHenry County, Illinois, decided that $35 for petunias to fill their window boxes and flower beds was too much, so now they grow their own. Used silo staves plus window glass put a transparent roof on this brooder house for less than $50, including the carpenter's labor. Up until Christmas, yellow chrysanthemums bloom profusely. In the spring it provides seedlings for the flower beds and tomato plants for the garden.

Put an end to "magazine clutter"

By the middle of the month, do you suddenly realize your magazines have spread all over the living room? A wonderful solution to that ever-present problem is this magazine rack. It can be attached to any length wall space you have.

The materials required are stock sizes: two 1x2 endpieces; one 1x2 bottom piece; one 1x3 frontpiece cut 1½ inches longer than the bottom; and a 1x1 top frontpiece.

This rack would be handsome on your wall either finished in the wood color or painted to match the background of wallpaper or paint. You'll love having your magazines within easy reach!

"Sure, I look all right ...but I feel awful!"

"I'm sorry, Boss. I can't help it....But I've got worms! *Large Roundworms!*

"Sure, I know I'm a healthy-lookin' pig—but there's something gnawing on my innards. It's worms! How many? I don't know. Maybe 20, 25, 50 or even 100.

"They make me feel awful. And they're going to make you feel awful, too, because they cost *you* plenty! At the University of Illinois they say a moderately wormy pig needs $4.99 more feed—and 5 weeks more time—to go to market than a pig without worms. At the U.S.D.A. they say every worm costs 1.16 pounds of pork.

"That's a pretty stiff price for *you to pay for my worms.* Especially when you can get rid of 'em for only about 5 cents!

"Only 5 cents? That's right, Boss. Just use only about 5 cents worth of MoorMan's E-Z-Ex in my feed. Man, oh man, do those worms skee-daddle!

"You see, Boss, MoorMan's probably know more about pig-worming than anybody else. They were the first to discover the safe, 95% effective sodium fluoride method many years ago—which they now call E-Z-Ex Worm Expeller. And this E-Z-Ex is so easy on pigs' tender tummies that we don't even know we're being wormed! And it's easy for you, too—you just feed the worms out of me.

"So, Boss, take a tip from me and see your MoorMan Man. Get me some E-Z-Ex or Easy-Way. It'll make me feel so *much* better. And man, will it make *your* pocketbook fatter!"

What is E-Z-Ex? E-Z-Ex is designed for stockmen who want to make their own *safe* sodium fluoride pig-worming ration. It contains:

1. Worm-killing sodium fluoride.
2. A gentle laxative that aids the expelling action.
3. Blood-building minerals that repair worm damage.

What is Easy-Way? Easy-Way is a complete, factory-mixed, ready-to-feed ration. It contains:

1. E-Z-Ex, *plus*
2. A combination of protein and carbohydrate feeds that provide a complete, body-building ration.

Remember—MoorMan's E-Z-Ex and Easy-Way are better 3 ways because 1) they kill the worms, 2) they provide a laxative to expel them, and 3) they contain ingredients to repair worm damage.

Ask your MoorMan Man about E-Z-Ex or Easy-Way. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. R2-4, Quincy, Ill.

MoorMan's

(Since 1885)

Makers of protein and mineral concentrates farmers need, but cannot raise or process on the farm

FOR GOOD RESULTS WE FEED MoorMan's

An Informational Advertisement on Fertilizer by Spencer Chemical Company.

"I'VE SET 80 BUSHELS as my corn production target," says Victor Mares (left) of Schuyler, Nebraska. He is talking to A. F. "Uncle" Svoboda of Wagner Mills, Schuyler, who has supplied his fertilizer and advised him upon its effective use.

His "Corned-to-Death" Field Now Makes Up To 90 Bushels

Nebraskan uses balanced fertilizer to build "worst land on farm" into heavy producer

EVER WONDER WHAT WOULD HAPPEN if you left one of your fields in corn for *50 years straight*—without any legumes or manure? Big, friendly Victor Mares *knows* what would happen. He *had* such a field on his 500-acre farm near Schuyler, Nebraska. Ten years ago the yield from this 20-acre field had dropped alarmingly. It had been literally "corned-to-death" since the days of the early pioneers.

THAT'S WHEN VICTOR MARES began using fertilizer. His yields began to increase at once. By 1950 he was putting on 150 pounds of Spencer Ammonium Nitrate fertilizer per acre, plus 80 pounds of 8-32-0 for starter fertilizer. Result: this "corned-to-death" field produced *90 bushels* of corn per acre! Even in 1951, a poor year for Nebraska corn, he harvested 60 bushels from this field once considered the poorest of his 500 acres!

A THOROUGHLY PRACTICAL MAN, Mares now has set 80 bushels as his production target for corn. When he makes this goal, Mares feels that he is doing a good job of farming.

NOTE: Current demand for Spencer Ammonium Nitrate Fertilizer exceeds supply. Your dealer may not be able to fill your order. We are operating our plants 7 days a week, 24 hours a day, and are doing our best to increase output.

PROF. EMIL TRUOG (left), Chairman, Wisconsin University's Dept. of Soils, talks with James Menn, Spencer Wis. agronomist. "Many millions of dollars," says Prof. Truog, "are being added to the annual income of farmers by the use of fertilizer. By greatly increasing crop yields on the more level lands, this use is lessening the need of growing crops like corn on *sloping* lands subject to serious erosion. This way, use of fertilizers becomes a major factor in lessening erosion and promoting conservation of our natural resources. The need of including more and more *nitrogen* in the fertilizer being used is becoming increasingly apparent each year."

FREE BOOKLETS:

- ☐ "You Can Grow Corn for 25c a Bushel."
- ☐ "Soil Building for Extra Profits."
- ☐ "Nitrogen Timetable" for My State.

Write to Spencer Chemical Co., 609 Dwight Bldg., Kansas City, Mo., for these free booklets.

Tips on window washing

By Jan Maple

Clean, shining windows do wonders for the morale of the family and the reputation of a good housekeeper. But, somehow, *keeping* windows that way is a task everybody seems to dislike. Most such dreaded chores become more pleasant with the use of more *headwork*, less *footwork*. Planning your job and providing the right tools may make it easier for you to brighten up both your outlook *and* your windows!

Getting ready

First, plot your "course." It usually makes sense to start at the top of the house and work down. Don't undo work already done by brushing dirt out of upstairs sills, or by accidentally dripping scrub water from high windows onto washed ones below. Plan a time schedule, too, to avoid working in direct sunlight; heat from the sun causes such fast drying that it will be hard to prevent streaking.

Second, get equipped for the job. Be sure—ahead of time—that you have on hand all the things you'll need: a good stepladder; a flat-bottomed pail or kettle with a handle; a whisk broom; plenty of clean, lintless rags; a sponge or sponge mop; a chamois or squeegee; some kind of solution or window-cleaning agent. All these are essential. If you have windows too high to reach on the outside, or some with paint splotches on them, you'll need some special tools.

Getting everything together *before you start* will eliminate those time-consuming extra trips after you've begun. Put all the materials in a small basket with a strong handle for easy toting from one window to another. Even better is a carpenter's or gardener's apron with deep pockets across the front to carry all the items within easy reach.

Next, remove *all* the screens or storm windows. Running back in the house and up and down stairs to unhook each one separately is inefficient—and tracks dirt into the house. If storm windows or screens are to be stored, carry them immediately to the storage place, out of your way.

Glass cleaners to use

Begin on the outside and get at the "worst of it," then do the inside finishing touches.

Flick out the dirt from the outside sill and casing of the window with a whisk broom. Then wipe out the sill with a damp cloth reserved just for the dirtier jobs.

For cleaning the glass panes, the choice of solution or cleaner varies from plain water to complex chemicals. Many excellent commercial preparations may

make the job easier. Your selection will depend partly on the guidance of reliable salespeople, and largely upon your own experimentation and particular needs.

Liquid glass cleaners are popular because they're easy to use and give excellent results. Most of them come in a bottle with a spray attachment. A lintless cloth is required to wipe these liquids off the window, and in some cases a separate cloth is used for final polishing.

Wax-type glass cleaner and polish is preferred by some because it not only does a good cleaning and polishing job, but leaves a thin protective film. This film is believed to keep windows from accumulating dust and soil so fast. In some cases it also helps prevent rain streaking and cold-weather fogging of windows. Use a clean, soft cloth to apply a waxy cleaner. Spread it evenly, in a thin film. The cleaner is wiped off, after a brief drying period, with another clean cloth. Be careful not to let these products become too dry before being wiped off. Otherwise they become more difficult to remove and are likely to "powder off" onto the woodwork.

When you wipe off window cleaners, use only side-to-side strokes on the outside of the glass, and only up-and-down strokes on the inside (or vice versa). Then you can easily tell the location of those elusive leftover streaks by noting whether they are vertical or horizontal.

Very fine scouring compounds, in either powder or cake form, give good results. A thin coating is spread over the windowpane, using a soft, damp cloth. Again, this should be wiped off when barely dry, or it will form white dust on surrounding woodwork.

Some good old homemade solutions are tried and true window-washing helps. Any *one* of the following added to 2 quarts of warm water gives good results:

2 tablespoons of household ammonia.
2 tablespoons of vinegar.
1 tablespoon borax.
1 tablespoon kerosene.
½ cup of denatured alcohol.

(The last one is especially good for washing windows outdoors in extremely cold weather.)

Any of the above "recipes" may be used scrub-bucket fashion, the solution being replaced with fresh when it becomes soiled. Or, if you have a sprayer-top bottle, or wish to buy an inexpensive one (of the type used to dampen clothes for ironing), the solution may be simply sprayed generously on the glass, then wiped off with a clean polishing cloth.

Chemically treated cloths or mitts are made for window cleaning. Requiring no liquids or cleaning agents of any kind, they simply can be rubbed over the surface of the glass to clean and brighten it. They are especially good for "spiffing up" windows between wash jobs.

Removing stains

Paint and varnish stains on windows are a special problem. If they're fresh, a cloth dampened with turpentine will do the trick. Old spots may be first softened with turpentine or paint remover applied

[*Turn to page 112*

When Ed told me how much it cost to heat his house last winter, I sure was surprised. His house is just like ours—seven big rooms, and open to the winter winds. He heats with oil and I heat with *bituminous* coal—*and my fuel bill was nearly one-third less than his!*

And what's more, we got better heat, too, by using coal. All winter long we were warm and comfortable. With a coal fire you get steady, even heat—that means fewer "cold pockets" in the house. And I think that's one reason the family had fewer colds.

And then too, snow-blocked roads didn't bother us. Some of our friends had trouble getting fuel deliveries, but our coal bin was stocked with a full winter's supply. And power failures from storms couldn't shut off our heat either.

Yes, when it comes to heating a house you just can't beat *bituminous* coal. It saves money, you get better heat, and it's more dependable, too!

BITUMINOUS COAL INSTITUTE
A Department of National Coal Association
WASHINGTON, D. C.

7 good reasons why coal is the most popular fuel in up-to-date farm homes

- ✔ Steadier warmth—no "on-again, off-again" flame!
- ✔ Fewer "cold pockets"—fewer colds!
- ✔ Automatic with stokers and controls!
- ✔ Easiest and safest to store!
- ✔ Lowest price almost everywhere!
- ✔ America's vast reserves make supply dependable!
- ✔ America's dependable supply assures price stability!

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YOU CAN COUNT ON COAL!

COMPARE IT FOR EASE OF USE!

EASIEST Portability!

With beater unit that glides off stand for use at table, range, anywhere! No triggers, catches, latches. Compare!

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With exclusive MIXGUIDE that puts 10 tested speeds under your thumb, magnified for flash reading. Hand that holds mixer sets speed. Frees your other hand to hold a pan, add ingredients. Full power at all speeds. Compare!

EASIEST Bowl Control!

Shifts ever-turning bowl while beaters revolve—guarantees thorough mixing. Easiest of all food mixers to use regardless of price. COMPARE and you'll choose Hamilton Beach! *Hamilton Beach Co., Div. of Scovill Mfg. Co., Racine, Wis.*

COMPARE and you'll CHOOSE

HAMILTON BEACH

Compare it for VALUE!

Ask any owner of the Hamilton Beach Food Mixer. Forty years of experience and 15 million appliances say Hamilton Beach is *real value*. At $37.50, Hamilton Beach is your best dollars-and-cents buy. Compare! Meat grinder, slicer-shredder, coffee grinder, pea-huller and bean slicer attachments available.

**Prices subject to change without notice.*

NEW HAMILTON BEACH Mixette

$18.75* IN GIFT BOX

Includes bracket and screws for wall mounting.

BEAT, MIX, MASH, WHIP in any bowl or pan.

FULL-POWER MOTOR — even mixes heavy oatmeal-cookie batter.

THUMB ADJUSTS SPEED—other hand holds pan or adds ingredients.

HANGS ON WALL or fits in drawer—bracket furnished.

BEATERS SNAP IN for use—snap out for cleaning.

Made by the makers of top-value Hamilton Beach Vacuum Cleaners

Window washing

[*From page 111*]

with a clean paintbrush, then gently scraped off with a putty knife or safety-razor blade in a holder.

Putty can be removed with household ammonia rubbed on with a cloth.

Tools to use

Good for washing high windows is a hinged, long-handled tool with a felt pad on one side, a squeegee on the other. With it, you can reach out from inside the house and do a good window-washing job outside. Other long-handled tools, usually sold for floor waxing or rug shampooing, have a cellulose sponge on the end and may be used for window cleaning, too.

A good chamois kept only for *clean* household jobs is excellent as a lintless wiper for windows. A new chamois substitute made of latex and nonwoven fabric is also effective and inexpensive.

Cellulose sponges, available in almost any desired size, are tops for window washing. Their rectangular shape enables you to get at corners easily.

Squeegees, helpful in removing liquid cleaners, are good for large, unsectioned panes of glass such as picture windows. In using them, each stroke should overlap the previous one—to avoid streaking. Make long, firm strokes from top to bottom of the pane. The blade should be wiped off with a clean cloth *after each stroke*. Buy a good squeegee; janitor-supply houses usually handle them.

You may want to try wiping liquids from windows with clean, crumpled newspaper. It is absorbent and does a good job of polishing. However, it does "rag" off during use, so is more satisfactory for outside window surfaces than for inside.

Everything you use—sponges, cloths, and solutions—all must be *clean* if they are to get the window clean. Replace materials and renew the solution often.

Play it safe

Remember ordinary safety precautions when you tackle your window-washing job. Get the right kind of ladder and see that it is in good repair. It never pays to risk your neck by trying to balance on a tipsy makeshift. It's unnecessary and unwise to reach so high you strain every muscle.

A stepladder is preferable to a round-rung ladder, because hours of standing on narrow, round bars are hard on feet.

And, finally, don't sit on window sills and reach outside to wash high windows. If you don't have the tools to make these windows easily and safely accessible—well, it's better to live with a little dirt than *not to live at all!* **END**

SUCCESSFUL FARMING

Invents Machines to Clear Land of Stumps at Low Cost!

STUMP ROOTER

Bert Corbello demonstrates his novel stump rooter. No matter whether a stump is "bulldozed" or dynamited, some roots always remain. Mr. Corbello's hydraulic-operated "rooter" pulls up these remaining roots so that the land is entirely cleared for crops. Mr. Corbello's machines have enabled him and his brothers to clear acres of land at low cost.

SELF-PROPELLED STUMP BORER

This machine, designed and built of parts of old automobiles by Bert Corbello, R.D.2, Kinder, La., bores holes in large stumps at the proper angle for effective dynamiting, at the rate of 3 feet deep per hole per minute. The operator does not have to leave the machine and in a short time can drill many stumps for dynamiting.

BERT CORBELLO and his two brothers leased 2,000 acres for rice farming near Lake Charles, La. A considerable portion of the land had to be cleared of sizable trees. Thanks to Bert's inventive genius in developing the stump borer and stump rooter shown, plus Texaco Products, the Corbello brothers cleared the land at rock bottom cost. Now it is paying a good dividend.

"Jane Ormsby," oldest registered Holstein cow in U. S., is 24, an age equivalent to 170 among humans. She was bred and is owned by Charles Brace (left) and his brother, Don, of Lone Rock, Wisc. The Braces find that Marfak lubricant sticks to bearings better and longer — seals out grit and dirt — won't wash off, drip off, dry out or cake up.

Even "Billy" is interested, as Mr. Corbello opens up a bucket of Havoline, the Heavy Duty Motor Oil that practically eliminates engine wear in Diesels and heavy trucks, tractors and automobiles. Havoline keeps engines cleaner, better lubricated, therefore providing more power and pull from every drop of fuel.

Mr. Fred Buscher (left), who farms 780 acres near Ritzville, Wash., gets friendly, neighborly service from Texaco Man Paul Meyer. Mr. Meyer is delivering a tankful of Fire-Chief, the gasoline with superior *"Fire-Power"* for low-cost operation. Farmers the country over find *it pays to farm with Texaco Products.*

TUNE IN . . . Metropolitan Opera broadcasts every Saturday afternoon. See newspaper for time and station.

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THE TEXAS COMPANY

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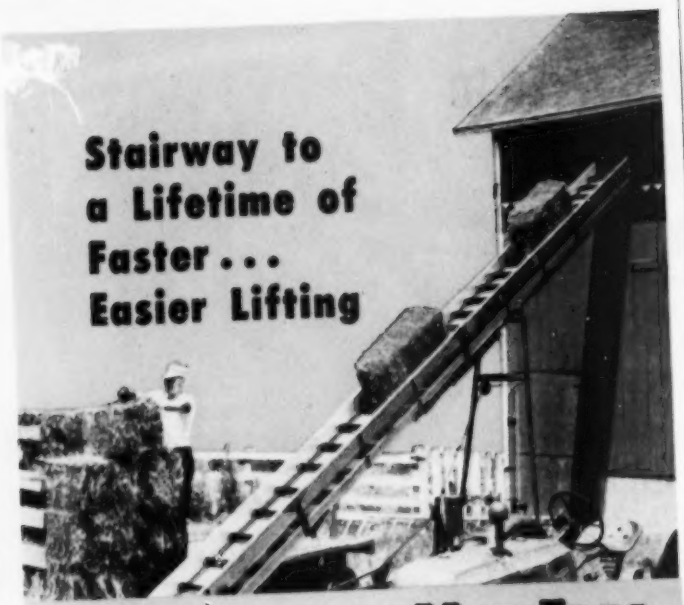
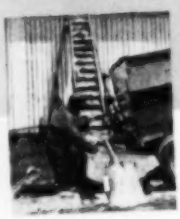
DIVISION OFFICES: Atlanta 1, Ga.; Boston 17, Mass.; Buffalo 3, N. Y.; Butte, Mont.; Chicago 4, Ill.; Dallas 2, Tex.; Denver 1, Colo.; Houston 1, Tex.; Indianapolis 1, Ind.; Los Angeles 15, Calif.; Minneapolis 3, Minn.; New Orleans 6, La.; New York 17, N. Y.; Norfolk 1, Va.; Seattle 11, Wash.

Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

50 for Fifty Years





that's why a **NEW IDEA** is a good idea

Like all New Idea machines, the New Idea elevator is built to *last*. This many-purpose elevator stays in alignment . . . bottom and sides . . . year after year because suspension trussing and box-crimped sides will take unusual strains or twists and stay in alignment.

Chain and specially curved flights ride on replaceable wood strips for long life, added protection, quiet operation.

This well-balanced elevator can be rolled easily from one job to another. Various length combinations are obtained by interchanging 8 and 10 foot sections. Available for gas engine, electric motor or power take-off drive.

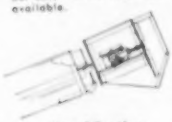
For detailed information see your New Idea dealer or mail coupon for free literature.

Suspension Trusses

Adjustable suspension trusses eliminate sagging and bowing, insure long life.

Tilt-Type Hopper

70" long trough for grain and ear corn. Heavy coiled springs make tilting of hopper easy. Shovel type hopper available.



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End of head section removable for handling bales or bags without interference.

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- ☐ Corn Snappers
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Name _____

Address _____

Fertility

[*From page 41*]

a proved job here. However, there also is evidence that if you apply enough nitrogen fertilizer to corn, it will put out so much high-nitrogen top and root growth that the plant as it decays will do all or part of the job once given to legumes! The evidence isn't all in, but it appears that on *some* soils we can safely grow fewer legumes and still maintain tilth with this system.

Soils also differ in slope. Well known for their job of soil-saving are the practices of contouring, strip-cropping, and terracing. But you ought to consider also that these practices are a means of expanding your corn acreage on sloping land.

How to do it. Consider your soil; then you'll know how far you can go with a Joe Miller system.

In this discussion we'll assume you want to use this system on as many acres as possible, for it's acres multiplied by yield per acre that makes production. Let's look at how this can be done.

If you have a level, dark-colored, medium-textured soil with adequate drainage, you can shoot the works. Examples of these are the Muscatine soils of Iowa and Illinois, and Nicollet of north central Iowa. These soils can take it. Here, nitrogen fertilizer can substitute to a high degree for legume nitrogen—perhaps 100 percent in the short run.

How long this can be done we don't know for sure. If you do it with fertilizer alone, the structure and tilth eventually may become a bottleneck. If your yields start to decline—even with plenty of fertilizer—give them the legume-grass treatment. They'll come back in a hurry. You will, of course, be taking a chance on such insect problems as corn rootworms if you grow corn 3 years straight.

Tight soils. It's a different story for the clay-pan soils. They are silty or "floury" in the surface, and have tight, nearly waterproof clay subsoil. The surface tends to seal over and puddle while the subsoil fails to drain.

You can put on the fertilizer, but too-frequent cropping with corn aggravates the structure problem, and drainage becomes even more difficult. You can grow a high percentage of corn and soybeans, but grasses and legumes are needed regularly to keep the soil in condition.

What about sloping cropland? Too many acres of corn here will cause you to lose in the long run. That is, if you don't provide protection against soil erosion. You can partially lick the erosion problem by contouring, terracing, and strip-cropping. Or you can keep soil losses low by using less corn and more grass in the rotation.

Wide-row spacing. There are other new ideas for controlling erosion while growing corn. Wide corn-row spacing in combination with cover crops (reported in the March *Successful Farming*, page 54) looks good. So does the slit-row planting of corn in sod being tested by Doctors Bray, Melsted, and Kurtz, at the University of Illinois.

If you whip the erosion problem, then you have left, essentially, a flat piece of land. Your problem is reduced to one of maintaining tilth and fertility.

The regular recurrence of legumes and

grasses does a remarkable job for structure and tilth—and helps with the fertility job. That is, if you have a good stand and growth. Too often, we have expected poor stands and meager growth of legumes and grasses to perform miracles. If your sod crops are to do a full job, you must supply plenty of lime, phosphate, and potash.

But you can increase your corn yields quickly, even on low-fertility soils, without legumes.

Remember, corn requires plenty of plant food for top yields. A 100-bushel crop of corn uses about 150 pounds of nitrogen, 60 pounds of phosphate, and 120 pounds of potash per acre.

But you can't just throw fertilizer on and expect profits. You need to apply some science in its use. This involves (1) the kinds and amount you need to apply, and (2) method of application.

How much? Your first problem is to find out the amount of plant-food nutrients needed to do this job.

As soils do differ, a soil test will be a real help in telling you what grade and how much fertilizer to apply. Look at your corn during the growing season. Corn tells you when it is low in nitrogen, phosphorus, or potash by the appearance of its leaves. (See February, March, April, 1951, issues of *Successful Farming*.)

Your state agricultural experiment station has conducted hundreds of fertilizer trials. You will want to check on these to tell you what yields you ought to try for.

Increasing yields in a hurry is a big part of the story—but you also will be hastening maturity, increasing shelling percentage, and reducing "down corn."

The pay-off. Let us check a few results obtained in 1951 by Lloyd Dumenil and Robert H. Shaw of the Iowa Agricultural Experiment Station.

They found the average date of silking—a good guide to time of maturity—was often from 2 to 10 days earlier on fertilized plots. In some extreme cases, it was as much as 20 days earlier. At harvest, the moisture percentage in the fertilized corn was generally lower than in the corn without fertilizer.

Dumenil also found fewer down stalks when balanced plant food was added. In one experiment in 1951, there was 65 percent root lodging without fertilizer. A combination of starter fertilizer, plus a heavy application of nitrogen, reduced lodging on this field to 5 percent.

[*Turn to page 116*

SUCCESSFUL FARMING

"I don't know *when* I've been so completely carried away by a picture!"

It's just good business to

SAFEGUARD YOUR FARM INVESTMENT

with BARRETT farm products

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—from the roof down!

PROTECT TOOLS AND EQUIPMENT

CONSULT YOUR LOCAL BARRETT DEALER.
He'll give you valuable advice and cooperation on almost any farm maintenance or building problem. See classified telephone directory—look for the familiar Barrett trade mark.

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- **Asphalt Roofing Shingles**
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FREE Send for BARRETT'S "Farm Aid" Book

This book gives detailed information on roof repairs, re-roofing, re-siding, insulation, protecting wood, farm equipment, etc.

*Reg. U.S. Pat. Off.

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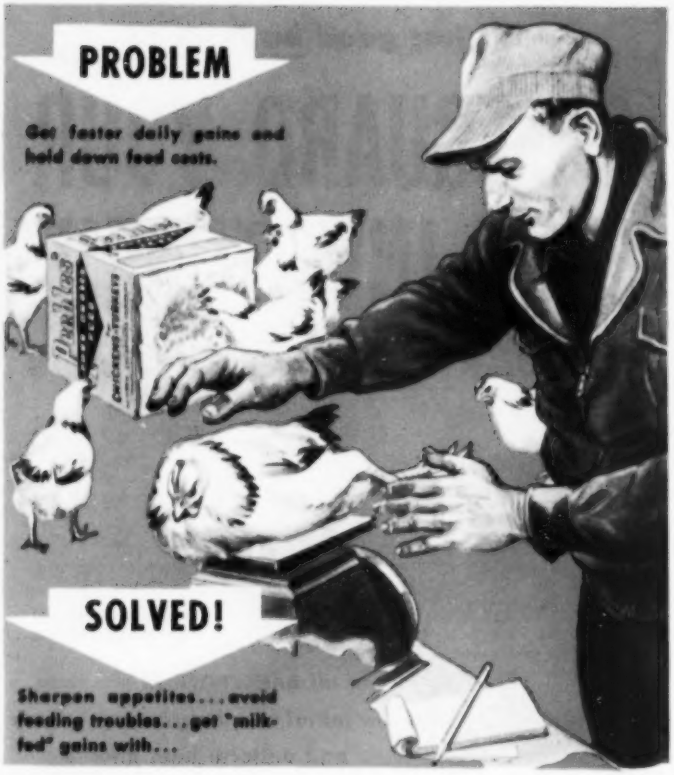

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- **A BODY BUILDER.** Supplies concentrated milk protein, vitamins and minerals. Helps birds build big frames, more meat. Contains no filler . . . 100% digestible . . . a little goes a long way. You get more production from each pound of feed at less cost.
- **SELF-FEED PACKAGE.** Simply tear off both ends of the carton and let the birds help themselves. No feeders required. Strong waterproof fiber package with plastic liner protects the feed in all weather. Feed it inside or out.

For wet mash feeding, ask for Peebles' 55

- More than an Appetizer
- More than a Conditioner
- More than a Nutritious Feed

A Combination Of All Three!

Send for free literature... *Find out how you can get faster gains and hold down feed costs with Peebles Free Choice Feed. Ask for folder B-4.*

WESTERN CONDENSING COMPANY, Appleton, Wis. • San Francisco, Calif.

World's Largest Producer of Whey Products

Fertility

[*From page 115*]

Starter fertilizer. *Most farmers don't put on enough!*

Starter fertilizers really go to town in a cool, wet season where poor aeration and temperatures slow up the release of nutrients from the soil. This slows up the growth of the young corn plant. But starter fertilizer supplies readily available nutrients *early* when the corn plant has a limited root system. Moreover, the starter stimulates the early growth of the corn roots.

Proper placement is important—fertilizer is best in bands about 2 inches to the side and as deep as the seed. Many farmers use only 80 to 90 pounds per acre. This is only about *half* enough, according to most college tests.

From 125 to 175 pounds per acre is suggested when applied beside the hill. When drilled, the rates vary from 150 to 400 pounds per acre.

Starter fertilizers at planting time have given more variable and generally poorer results in the extreme western part of the Cornbelt, west of western Minnesota, Iowa, and Missouri. Likewise, experiments in Michigan have not resulted in as large increases in yields as have been obtained in other Cornbelt states.

Where starter fertilizer is used, 2 or more times as much phosphate and potash are added as nitrogen. Thus, such fertilizers are more than just "starters" in phosphate and potash. But the nitrogen added just "teases" the corn crop unless the soil is well supplied to finish the crop.

Rapidly growing corn near tasseling time may absorb as much as 4 to 5 pounds of nitrogen per acre daily. That's the total amount added in most starters at planting time. We must go beyond "teasing" our corn with starter nitrogen and really add what's needed for a big crop, on soils low in this essential nutrient.

Nitrogen the big need. Insufficient nitrogen, more than any other nutrient, limits top corn yields.

You will get results from extra nitrogen fertilizer on any infertile, poorly managed, or eroded soils—provided you also have enough phosphorus and potash. Some of the best results with nitrogen are obtained when a grass sod (with few legumes) such as timothy, bromegrass, or bluegrass is plowed for corn. Second-year corn also responds well to this practice, as does corn after soybeans. Or when you have a legume failure, you can use extra nitrogen to help keep your corn yields up.

The most profitable rates usually are between 20 and 100 pounds of actual nitrogen per acre. Under ideal conditions, 2 pounds of nitrogen will produce an added bushel of corn. But at the higher rates, it may take as much as 3 to 5 pounds of nitrogen for the extra bushel. Even this is profitable at present prices.

The rate per acre should be gauged by the relative need. With second-year corn, on land with reasonably good management, 20 to 40 pounds of nitrogen per acre is enough. When grass sods are plowed under, or corn is grown on less fertile fields, from 40 to 100 or more pounds per acre will pay.

Actual nitrogen. Several nitrogen fertilizers are on the market. Although they differ in various ways, they all supply nitrogen for plant growth. The most im-

portant consideration is the pounds of actual nitrogen they contain. That's why we gave you the recommendations above in actual nitrogen rather than any specific nitrogen fertilizer.

Buy the cheapest source of nitrogen available. By this we mean the one that costs the least per pound of *actual* nitrogen. To calculate the cost per pound, multiply the percent of nitrogen times 20, and divide it into the price per ton. For example, ammonium nitrate with 33 percent nitrogen times 20 equals 660 pounds of nitrogen per ton. If it costs $85 per ton, then $85 divided by 660 gives you 12.9 cents as the price per pound of nitrogen.

How to apply. You can plow nitrogen under or side-dress after the corn is up. Both methods have given good results in experiments and on many farms.

You usually have more time to broadcast before plowing than to side-dress later. If you're really shooting for top yields, you may want to do both.

Broadcasting and discing in nitrogen after plowing can be done with available equipment. It has the disadvantage of stimulating early growth of weeds. Moreover, poorer results are obtained in some seasons.

Side-dressing usually gives best results if done at first or second cultivation. If applied too late, and rainfall is low in July and August, little of the nitrogen may be used by the corn. But side-dressing has the advantage of permitting you to adjust the rate to fit your stand.

Extra phosphate and potash. Where phosphorus and potash are low, nitrogen alone or in combination with a starter won't produce what it should. (See drawings on pages 40 and 41.)

Usually, when heavy applications of phosphate and potash are needed, nitrogen is added also because legume crops have been thin. Where all three are needed, an 8-8-8 or 10-10-10 fertilizer is often plowed down.

The rates per acre are often 40 to 80 pounds of actual phosphate or potash or both per acre, but these vary with the soil test. When 10-10-10 is used, this would mean 400 to 800 pounds of fertilizer per acre.

The plow-under method usually is preferred. Phosphate, especially, should be plowed. If only potash or nitrogen and potash are needed, they may be side-dressed early. Or potash alone can be disced in after plowing.

Nutrient balance important. Yes, corn requires lots of nitrogen, phosphate, and potash for top yields. All three nutrients must be adequate for top yields.

A liberal application of phosphate or potash alone, on a soil extremely deficient in available nitrogen, is money wasted. It is about like trying to grow hogs on a ration of corn alone. You cannot afford to grow hogs that way. Nor can you afford to raise corn on infertile soil without balancing the supply of nutrients to fit your soil.

Use some science in supplying an abundance of fertility. Keep it balanced. Remember that on most farms both legumes and commercial nitrogen are needed. We must have lots more nitrogen to get maximum yields. Study your soil and develop a fertility program to fit it.

In next month's issue: "Keys to More Corn —a Five-Point Planting Plan."

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You will get more hours of tractor life and spend less money for repairs by using Sinclair Gasoline regularly. That's because Sinclair Gasoline contains RD-119,® the amazing chemical developed by Sinclair Research. This exclusive rust inhibitor coats the inside of the entire fuel system with a thin protective film which stops the formation of damaging rust and corrosion — protects fuel lines, fuel pump and carburetor.

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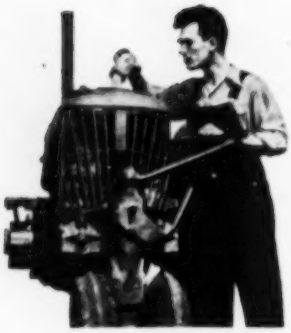

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No matter what the weather—winter or summer—*it pays* to keep your radiator clean. Use one canful of Sani-Flush for tractors and large trucks. One-half can for autos. Just follow directions on can. Safe—not caustic—yet sludge and scale let go—clogged passages open. Your motor is sweet-running in any weather. Sold everywhere. The Hygienic Products Company, Canton 2, Ohio.

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Handle 6, 7, 10-inch plows . . . cultivate, plant, mow, bulldoze, cut trees, saw wood, do many other jobs fast and easy. 1½, 3 and 5 H. P. machines with variable speed transmission, adjustable wheels, plenty of plant clearance. Power turn models and power take-off attachments available.

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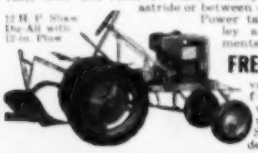
Also ideal for second tractor on large acreage. 5, 8, 12 H. P. models plow 4 to 8 acres daily, plant, cultivate, mow and rake, do many other jobs. Works astride or between 42-in. rows. Power take-off pulley and attachments available.



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Farm agency survey

Wide differences of opinion regarding farm programs were found among Ohio Farm Bureau membership in a state-wide poll. This was taken after 1,550 Advisory Council groups had used it as a basis for discussion. Officials believe the results are an accurate sample of farm opinion.

I am more than usually interested in this study because it followed closely the *Family Farm Policy Review* and covered many of the same questions. New York made a study through the Smith-Hughes teachers and some county agents. These fact-finding studies are extremely important if made so they are an accurate measure of current farm thinking. In my opinion, everyone would stand to gain by a better knowledge of existing government agencies and how to use them.

Ohio Farm Bureau members are strong in their support of soil-conservation work. When it comes to deciding who should administer these programs, 36 percent say "keep it as it is" and 33 percent would put it under control of the Extension Service. On the hot question of soil-conservation payments, 54 percent think they should be cut out entirely, 30 percent like the present level, and 14 percent favor an increase.

And 42 percent favored commodity loans and the storage program, but 39 percent would discontinue all price-support programs. After all, isn't the storage program part of the price-support job? Agricultural research and education were strongly endorsed by those answering that question. A thumping majority think more money should be made available for federal farm credit. The Farmers Home Administration came in for a strong vote of confidence in its assistance program for low-income farmers.—*Kirk Fox.*

Clear thinking on farm policy

On the eve of a presidential election, we may expect the issues to involve agriculture at many points. Well timed is a study made by 13 of this country's leading farm economists of what is best for farmers and the nation. The work was financed by the Farm Foundation established by Alex Legge, a former president of International Harvester Company, and Frank O. Lowden, a former governor of Illinois who distinguished himself in behalf of agriculture.

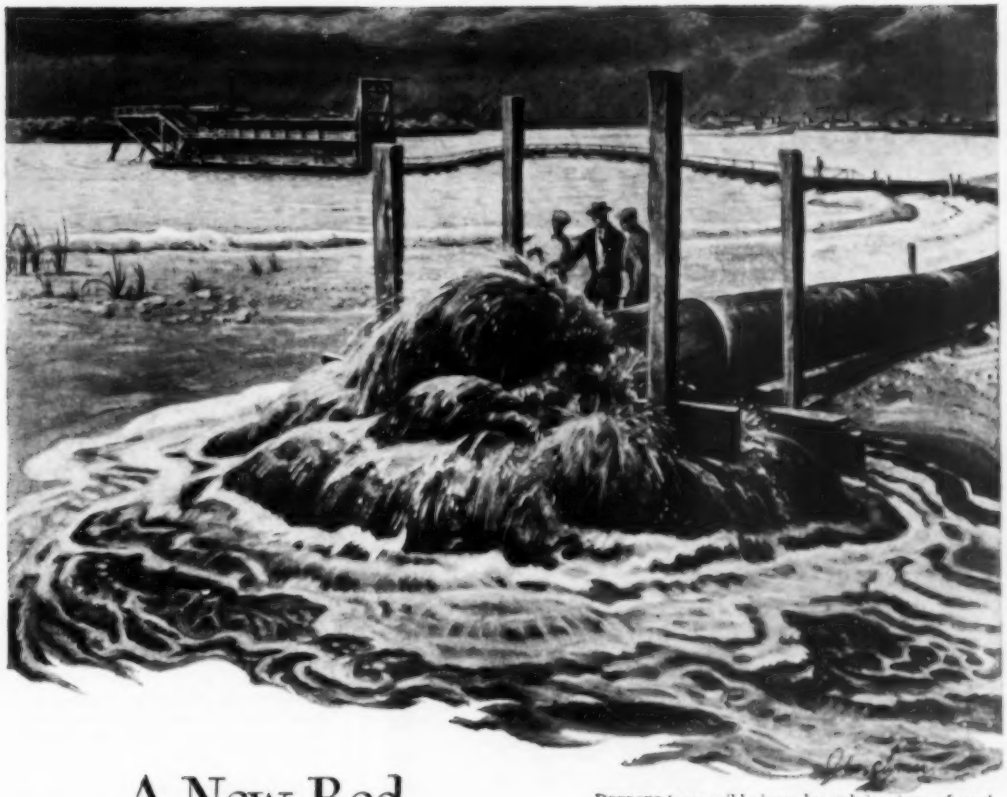
Equality for agriculture is found to commend itself to American thinking—off the farm as well as on. However, the term "parity" does not well express this goal of equality for agriculture, say the economists. So far the real objectives of programs have been higher prices or higher incomes. Attempts to maintain prices above the trend of market values lead to undue reliance on organizational power and political pressures.

And like it or not, the study concludes that maintenance of prices at such a level means control of production or marketing use. Furthermore, controls are not effective when applied to a limited range of products. The storage program turns into a device for supporting prices above their free market level.

A sound farm policy is defined as one which permits labor, capital, and management used in agriculture to earn rewards equivalent to those which are enjoyed in other industries. Flexibility in farming is best obtained by the free managerial choices of the individual farmer. To protect farmers in times of depression, supplementary payments are regarded as most effective and economical. A separate program is urged for the noncommercial farmers. The "price parity" formula has outlived its usefulness and should be abondoned in the interest of gearing a farm program to present economic realities.—*Kirk Fox.*

SUCCESSFUL FARMING

"If my little boy is bothering you, Mrs. Winton—just send him on home."



DREDGES tame wild rivers by gulping tons of mud, sand, gravel . . . forcing it through pumps at high speed . . . pumping it out onto the surrounding land.

A New Bed for a Restless River

— how "Your Unseen Friend" helps keep the flood from your door

OLD MAN RIVER never rests easy. All year long, he twists and turns in his bed. And, in the spring, he sometimes forgets he's old. He leaves his bed, spreads across the lowlands, floods homes, and sweeps over rich farm lands on which cities depend for food.

When this happens, the flood control experts get busy.

They bring up dredges to make a new bed that's straighter and wider and deeper . . . so the river won't overflow its banks.

These dredges are big and tough and well-designed.

They *have* to be. They must gulp tons of mud, sand, and gravel. Force it up through pumps at high speed. And then pump it out through big, long steel pipes onto the surrounding land.

This calls for tough metal parts. And that's where Nickel comes into the picture.

Sometimes it's used in the cutter heads that chew up gritty silt.

Sometimes it's used in the pumps as well. It may be in the form of Nickel steel castings or Nickel cast iron ("Ni-hard"). But whatever the form, these Nickel alloys have what it takes to stand up to the harsh scraping action of fast-moving sand and gravel.

When you see a powerful dredge making a new river bed, or a big bulldozer clearing off land . . . when you see the defense products industry is turning out . . . you can be sure Nickel is working for you 'round the clock.

You don't see the Nickel because it's intermixed with other metals . . . adding toughness, hardness, endurance, and other special properties. That's why Nickel is known as "Your Unseen Friend."

For the Inquiring Mind: *Where does Nickel come from — who made this friendly metal useful, valuable? How is it possible to raise tons of ore thousands of feet and produce Nickel for your ever expanding world of wonders?*

This romance of men, mines, and machines, of developing resources, is in your free copy of "The Romance of Nickel." Write, The International Nickel Co., Inc., Dept. 565a, New York 5, N. Y.

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Take your trucks and cars to your service place for free, motor-saving filter check. A fresh Purolator Refill in time is low-cost "insurance" against expensive engine repairs.

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Micronic OIL FILTER

THE Farm

By Gus Larson

How can Bossy's milk be kept free from garlic flavor? What is the new way to raise pigs faster? How many dollars does the hog farmer get back for each $100 of feed fed? You'll find the answers worth your time, so let's begin.

Score 5 points for each correct reply. If you score (a) 90 to 100 points—tops. (b) 75 to 85 points—good. (c) 50 to 70 points—passed. (d) 45 points or below—sorry, not very good.

1. It is not easy to lure a coon into a trap. How would you bait for best results? (a) paint tongue of trap with luminous paint (b) use fish oil (c) use corn meal.

2. "Forbidden fruit" is an exotic fruit that tastes like a cross between a strawberry, banana, and pineapple. Its real name is (a) Delecta Arabia (b) Monstera Deliciosa (c) Devine Hebrida.

3. Today a farmer produces more in 1 hour than the farmer of 1900 did in (a) 3 hours (b) 4 hours (c) 2 hours.

4. Some danger signs of heart disease are breathlessness, swelling of feet and ankles, chest pains, chronic fatigue, and indigestion. (a) false (b) true.

5. Infertile heifers and old cows (cows which failed to become pregnant) may soon be made to give milk by (a) hormone injections (b) a new feed (c) infrared rays.

6. Fred Johnson said: "The last milk taken from a cow has much more butterfat than milk first drawn." Bill Nelson argues: "The milk is the same from start to end." Who is right? (a) Fred (b) Bill.

7. Whether on pasture or dry lot, cattle all eat about the same amount of salt no matter what their age or ration. This statement is (a) true (b) false.

8. In 1945, the farmer got 45 cents out of every food dollar spent. How much of each food dollar is expected to go to farmers in 1952? (a) 49 cents (b) 39 cents (c) 60 cents.

9. There are millions of parasites eating the insides out of borers in your cornfield right now. This killer of borers is called (a) Maggota xama (b) Lydella stabulous griseceus (c) Dart.

10. Out-of-pocket cash costs to Illinois farmers reached a new high in 1950. How much of total cash income per farm went for cash expenses? (a) 50 percent (b) 74 percent (c) 35 percent.

11. A way has been found to eliminate garlic flavor from spring milk and from Bossy's breath. Bossy's breath and milk can be sweetened by (a) chewing gum (b) chlorophyll pill (c) throat spray.

Quizbox

12. Wrapping 5-inch-width aluminum foil around the trunks will prevent rabbit and mice damage to your apple trees. Would you say this is (a) good advice (b) poor advice?

13. For each $100 of feed fed by the hog farmer in 1950, how many dollars (on average) came back to the farmer when he sold the hogs? (a) $110 (b) $152 (c) $312.

14. If you plan to grow a windbreak, don't plant your trees on land that has been in corrals or under an old strawstack. The trees won't do well. (a) true (b) false.

15. Some farmers force-feed cows by adding ground hay to grain. Does force-feeding (a) decrease your milk production (b) increase milk production (c) neither increase nor decrease milk production?

16. Mrs. Nell Hinkley said: "Don't feed the foam on skim milk to calves. It is harmful." Mr. Hinkley argues: "The foam on skim milk won't harm calves at all." Who is right? (a) Nell (b) Mr. Hinkley.

17. Some farmers put sawdust, wood chips, shavings, and bark on soil. They claim them to be good soil conditioners. Does sawdust (a) poison soil (b) make soil acid (c) improve soil?

18. Henry Dewhurst said: "Don't treat your hog troughs with wood preservatives unless you want your pork chops poisoned." Victor Haney replies: "The hogs can't absorb enough preservative to be harmful." Who is right? (a) Henry (b) Victor.

19. For each $100 of feed fed to sheep in 1950, how many dollars were returned to the farmer when he sold the sheep? Was it (a) $120 (b) $180 (c) $342?

20. A "kinker" is a new farm machine developed at the University of Wisconsin. The purpose of the invention is to (a) speed currying of cattle (b) speed drying of hay (c) churn butter.

Answers on page 131

The New Holland Forage Harvester can chop and load up to 18 tons of grass silage an hour!

"My New Holland Forage Harvester saved me many hours of hard work!" says Fred S. Larson, Sec. Butternut Dairy Co-op, Centuria, Wisconsin

"Last year I bought a New Holland Forage Harvester and put up grass silage for the first time and I'm sold on it.

"My New Holland saved me hours of hard work. I'm surprised how easy it is to get in my hay and corn with one machine. I figure it takes less than half the time and labor to do the important jobs of haying and silo filling."

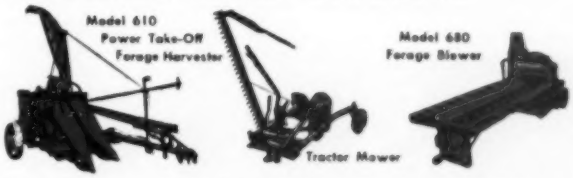
Here are features that make New Holland's Forage Harvester a great grassland machine:

1. Improved Pick-Up—Long spring fingers on the new pick-up lift the windrows out of the stubble and leave the field clean.

2. Reversible Feed—The feeder apron can be stopped, started or reversed from the tractor seat.

3. Exclusive Flotrac—The floating upper apron is a New Holland exclusive that keeps positive feed control of hay regardless of windrow thickness.

See the New Holland Forage Harvester at your dealer's soon or write for information. The New Holland Machine Co., a subsidiary of The Sperry Corporation.



This harvester, shown with corn head, can be operated by any 3-plow tractor.

Equipped with built-in jack. 7-foot cutter bar mows at speeds up to 5 mph.

Tilt-table blower has 22" operating position. Moves up to 40 tons of silage per hour.

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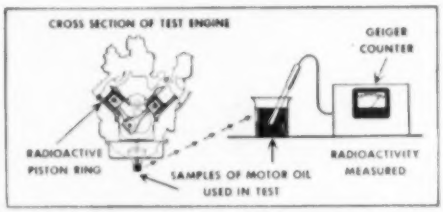
PISTON RING MADE RADIOACTIVE in Atomic Pile at Oak Ridge, is carefully installed in test car engine by specially trained scientists. Radioactivity is checked with Geiger counter at all times. Car is then driven in proving ground road tests under all kinds of weather conditions. Engine wear is measured with unheard-of accuracy by this atomic test. Test results can now be obtained in only 50 miles of driving—older methods took up to 10,000 miles.



HOW RADIOACTIVITY WORKS: motor oil used in test run picks up microscopic metal particles worn from radioactive piston ring. Radioactivity of oil sample, measured by a Geiger counter, shows rate of engine wear. (Don't worry—the motor oil you buy is not radioactive.) Tests show today's motor oils can actually triple life of your car engine.

LOCAL GUARDIAN of your car engine's future is your neighborhood service station operator. Competing vigorously with rival stations for your business, he helps lengthen the life of your car by providing newest, most improved oil products, top flight service.

Atomic Tests Prove New Motor Oils Can Triple Car Engine Life

A revolutionary new testing method, using radioactive materials, proves that today's new high quality motor oils, developed since the end of World War II, can actually *triple* the life of your car engine.

These atomic tests show that today's new motor oils substantially reduce engine wear—actually make it possible for you to drive your car many more thousands of miles without costly major repairs. Atomic tests, now being conducted by many oil companies, also open the door to the future development of even finer motor oils.

Increase in motor oil quality is one direct result of the constant competition among U.S. oilmen to get to you first with new and improved products. Today's gasoline is another example—2 gallons now do the work 3 did in 1925, although today's gasoline is priced about the same—only taxes are higher.

In peace or war, you benefit from the competition among America's privately-managed oil companies with the finest petroleum products at the lowest prices in the world.

Oil Industry Information Committee
AMERICAN PETROLEUM INSTITUTE
50 West 50th St., New York 20, N.Y.

For better lighting and better looking

By Nancy Wilson

Perhaps *you've* become accustomed to the old-fashioned, bare-bulb lighting fixtures found in your home, but are you sure your guests and friends have? Bare bulbs not only spoil the appearance of a room, but their harsh, cold light is unflattering and hard on your eyesight, as well.

There are ready-made fixtures available for disguising ugly-duckling lighting *without going to the expense of removing the present fixture and wiring*. Sketched below are five of the most commonly found bare-bulb arrangements, with suggestions for improving each.

If you have these fixtures, *here's what you can do with them*

Attach opaque, drum- or empire-shaped shade above an indirect bulb

If hanging bulb is over a work surface, add cone shade for a spot effect

Add a brass shade over cut-glass reflector bowl for its Colonial effect

Add a wide, shallow bowl shade over metallic reflector for good diffused light

Add shallow, bowl shade over frosted bulb to diffuse light from the fixture

Hold a flared, opaque shade on with clamps for a soft indirect light

For entry or bedroom, try this long, slim drum shade of parchment

Pep up the hall, porch, or dinette lighting with a paned-glass lantern cover

Hang an oval shade of parchment or fabric upside down to cover bulbs

For the modern touch, use twin, cone-shaped shades for a spot effect

Hang this wide, flared, opaque shade under the bulb for indirect light

For illumination without glare, add metal box cover with frosted-glass bottom

Increase efficiency of the fixture by adding larger bulbs under drum shade

For a soft, general light, use a frosted-glass covering over an old fixture

Hang metal shade under bulbs for indirect reflection from ceiling

Slip these small, individual drum shades over the bulbs —an easy way to cut glare

Soften light by adding Colonial-looking frosted chimneys, brass shades

Insert a frosted-glass or plastic bowl beneath each bulb to cut glare

Slip a small drum shade over each bulb to direct most of light downward

Add these frosted hurricane shades with etched designs for traditional air

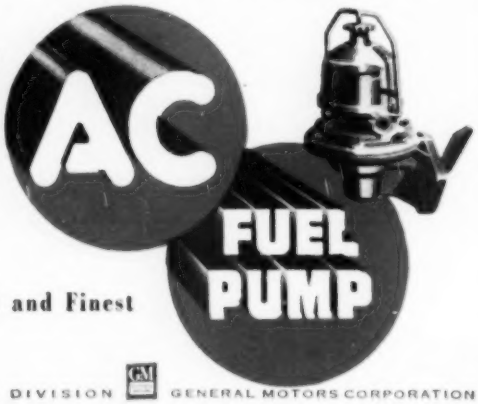
A MESSAGE TO MOTORISTS
Whose Fuel Pumps Have Seen Several Years of Service

DON'T LET THIS HAPPEN TO YOU!

Your car's fuel pump . . . because of its many moving parts . . . is naturally subject to considerable wear over the years. In fact, it pulsates 150 thousand times for every 100 miles you drive. And when the fuel pump stops, you're really stopped . . . oftentimes when service is most difficult to get.

Don't let this happen to you! A small investment for a new AC Fuel Pump . . . America's first choice for 25 years . . . will assure you of additional years of dependable operation.

HAVE YOUR AC DEALER INSTALL A NEW...



America's First and Finest

AC SPARK PLUG DIVISION GM GENERAL MOTORS CORPORATION

Can farmers pull together?

[*From page 37*]

Association, in its annual meeting, voted against both these farmer aids, it was with the provision that the programs be deactivated but left on the books in case of future need. The New York State Farm Bureau Federation took a somewhat similar action; and the American Farm Bureau Federation—by setting up bureaucratic controls as the main target of its 1951 annual meeting—posed the question of how long agriculture can go on accepting government money and still maintain its integrity.

But there is a rumbling in the background indicating that the action of these groups is not completely accepted by everyone living on farms. The rumbling was loud enough to warrant the *New York Times'* reporting that "farmers in many sections are still trying to get their organizations to have price supports boosted . . ."

For many years the National Grange has had a record of going to the Congress with farmers' battles and fighting for agriculture and issues *in the public interest*. Can it continue to do so? Will farmers down the side roads continue to give it support?

The Farm Bureau, which once worked to get such things as A.A.A., subsidies, and support prices, has seen the handwriting on the wall and concluded these programs not only are no longer needed but are a dangerous threat to our cherished freedom. Ten and 15 years ago the American Farm Bureau Federation was in there pitching for and with big government. Today it fears big government and the paralyzing effects of its controls on any group it subsidizes. The action of the New York State Farm Bureau Federation pointed the way. Yet a Cornell University survey which followed the Farm Bureau's vote *against* Production and Marketing Administration policies and price supports showed that about 50 percent of the Empire State's farmers interviewed *still wanted both!* To some, this seems a complete farmer contradiction of their elected spokesmen.

They ask, "What business does the New York State Farm Bureau Federation have voting to abolish programs which half the state's farmers say they want?"

By looking a little further, we can find what seems to be a logical answer. The Farm Bureau membership is made up largely of *producing* farmers and contains but relatively few who fear they cannot make a living without outside relief. The latter group includes not only those in the so-called farm "slums," but also many who elect to live in the country and raise their own food, but depend on other jobs for the main part of their income.

At the national level, the Farm Bureau is estimated to represent about 50 percent of the producing farms of the nation. Included is a large percentage of those farms which produce from 85 to 90 percent of all our food and fiber. In other words, *those farmers who are bearing the load of feeding and clothing our growing population.* Each one produces enough today for 22 other people.

According to the 1950 census, there are approximately 5.4 million "farms" in the United States. Only 96,000 of these

gross $25,000 or more a year; 365,000 gross from $10,000 to $25,000; 2,248,000 gross from $2,500 to $10,000; 870,000 gross from $1,200 to $2,500; and 700,000 from $250 to $1,200. Only about 1.2 million farms gross $5,000 a year or more. Most startling is the fact that 1.7 million "farms" sell less than $250 worth of produce a year, or their occupants earn more off the farm than they do on it.

All of which highlights the $64 question of the day: Does agriculture *have* a spokesman? If so, *for whom should he speak*—the million and a half actual farmers who produce from 85 to 90 percent of our food and fiber; or for all of the nation's 5.4 million "farmers," more than 2 million of whom, productionwise, are not carrying their *own* weight on the land?

> **When a man forgets about himself, he is likely to do something for which he'll be remembered.** —*Anonymous*

Is national agricultural policy of the future to be determined on the basis of uplifting, subsidizing, the inefficient, nonproducing farmer; or is it to be developed around the producing farmer, within the sound framework of what we need to supply adequately nourishing food, plus fiber, for an expanding population?

If the former course is to be chosen, then agriculture may as well resolve itself to accept as gracefully as possible the slings and arrows of an outraged public (which has to foot the bill for subsidies and soil-conservation payments), plus the regimentation which goes with government handouts.

Why not look this possibility right in the face, and return forthwith to the economic base on which American agriculture was built—one which rewards the efficient and penalizes the inefficient?

The elected representatives of producing farmers have taken the first positive step in this direction. And, while no one person or group can ever become the spokesman for so diversified and individualistic a segment of our population as agriculture represents, there *can* be coordination of effort behind this sound, forward-looking goal which is definitely *in the public interest*, and at the same time offers the soundest foundation to which agriculture could tie.

If, on the other hand, farmers don't like what their elected leaders have to say, they'd better speak up now, and take the consequences. The situation is serious enough to have caused one seasoned newspaper reporter at the recent A.F.B.F. annual meeting to write:

"To watch a big national farm meeting and its milling thousands of farmers and their wives, prosperous-looking and often stylish, is more like viewing a giant world fair or other amusement center. The serious business is for the most part transacted behind closed doors, while the farmers on the levels below policy makers enjoy the speeches, music, and other spectacles offered in general sessions. Farmer audiences are regarded as the most polite of all. They delight a speaker with undivided attention. This may be the key to the attitude of the rank-and-file farmer . . ."

There are at least four groups today who seek to speak for agriculture. They

[*Turn to page 126*

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Can farmers pull together?

[*From page 125*]

are: (1) the government; (2) farmers' organizations; (3) the people who live by and with agriculture—tractor salesmen, feed and oil merchants, the farm press; (4) the individual farmer himself.

Can we get enough unity of purpose among them to rise above individual-group interests? Are we going to realize—before it is too late—that we can no longer control our destiny by pressure alone? Agriculture, as a minority, holds the *balance* of power in the hollow of its hand. Will it throw its weight toward a goal which will benefit the entire nation, as well as itself?

It may be time to throw away the crutches and get back into a position

> **Those who deny freedom to others deserve it not for themselves, and under a just God they cannot long retain it.** —*Abraham Lincoln*

where agriculture, standing on its own feet, paying its own way, need make no apologies to anyone.

The presumably "hard-pressed" consumer, aware of "farm programs," agricultural-conservation payments, and price supports, blames farmers for the high cost of living. It goes even deeper than that. The dairy farmer gripes about the cost of grain, and his wife complains over the high price of cotton sheets. The fruit grower isn't happy about the cost of milk, and everyone but the potato farmer cusses at the high price of spuds—farmers most of all.

Meanwhile, the city consumer depending on the potato farmer for potatoes, the dairyman for milk, the cotton producer for sheets and shirts, and the grain and livestock industries for his bread, butter, and meat, is getting madder and madder. In the process, organized opposition to *all* farmers is growing by leaps and bounds.

Because of this, there has been much talk among farm groups of the need for a public-relations program to "interpret" agriculture to the consumer; to help Mrs. Housewife understand why food and fiber cost what they do. Such a program is needed. In fact, a sizable amount of the money paid in dues to national farm organizations now goes for that very purpose.

But when all is said and done, a public-information program of the highest quality can be no stronger than the pattern of action on which it is based. "Don't watch what I *do*. Read what I *say* I do," has been at the heart of every totalitarian government's propaganda campaign since Caesar's time and before.

I once attended a meeting in Washington at which the secretary of agriculture stressed over and over again, "It is my duty to look out for the farmer's interest and see that he gets his fair share of the national income." In essence, he said, "Who else but the government has the right to speak out for the farmer?" I have heard similar statements made by the secretary of labor in regard to labor.

Certainly these are times when we need capable and forceful men to speak up for

agriculture. We need the public servant from government who objectively attempts to serve, *but doesn't manipulate, coerce, or dominate.* We need professors from the colleges of agriculture, and specialists from industry, to speak out on scientific and economic facts at their command. We need strong farm organizations whose elected heads are authorized to speak for their membership.

But we also need the healthy, down-to-earth *results* which come when the producing farmer who lives by the daily sweat of his brow speaks up and is heard as to what he thinks is right and wrong in relation to his business and his country.

Today's farmer is a highly skilled individual, a respected businessman, and a keen observer. He is highly organized. His organizations are manned by capable leaders. Yet all this isn't enough. He, as an individual, must accept the challenge and opportunity which are there to speak up in the interest of America. He must reach up to the great responsibility which is his and be willing to give up so-called "special privileges" for the good of the country. By doing so, he will set an unparalleled example of courageous, statesmanlike leadership. Who else besides the farmer can or will accept this challenge to leadership?

With those in positions of leadership pointing the way, and supported by the rank and file, agriculture is in a position today to stand on its own feet. If the challenge is met, farmers can assume a place in national affairs which neither business nor labor succeeded in getting because too many of *their* leaders learned too late to look beyond the perimeter of their own interests. It is the kind of action the nation should expect from the descendants of men who left their plows, their families, and their farms 176 years ago to fight a war which won America her independence. **END**

Easter puzzle

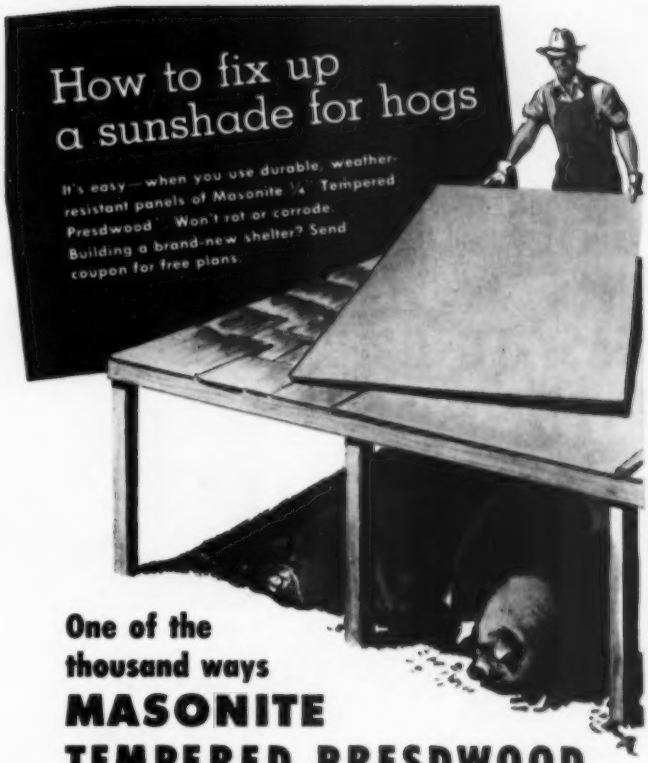
Can you complete this puzzle? Take four letters at a time from the word *Easter* and form a word suggested by the definitions given for each row. Solution below.

E				1. A direction
	E			2. Chair
		E		3. Prophet
			E	4. Price

R				5. Repose
	R			6. Large plant
		R		7. Organs of hearing
			R	8. Ace

Answers:
1. EAST 2. SEAT 3. SEER 4. RATE 5. REST 6. TREE 7. EARS 8. STAR

—*William Baumgartner*



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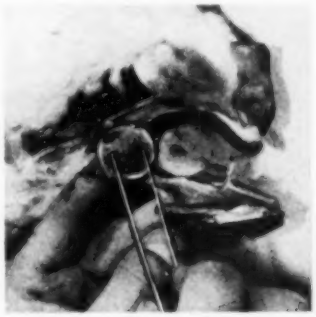
THE GRIT THAT HAS THE EXTRA GRINDING SURFACES

How to post a chicken

All you need for posting are scissors, tweezers, and a sharp knife. Follow steps below. Then compare color and size of organs you see with drawings on pages 46 and 47. Your answer to many disease problems is found inside the bird

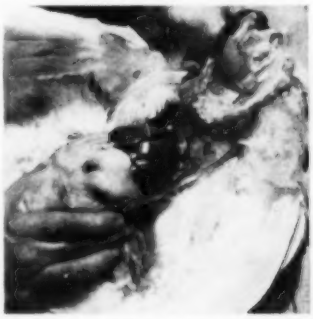
1 Carefully examine mouth, comb, face, eyes, skin, legs, and feathers for external disease signs. Look for lice, mites, gray eye leukosis, cankers, "cold" symptoms

2 Kill bird by grasping legs in one hand and the head in the other. Bend head backward, stretching down and back to dislocate head from neck. Hold the bird firmly



3 Examine inside of larynx, trachea, crop, and mouth. Diseases such as "colds," cankers, and laryngotracheitis attack these organs, causing changes in their appearance

4 Cut skin slightly over the breast. Then pull legs sideways to break skin over the breast. Use thumb to tear skin. Dislocate hip joints to make bird lie firmly on back



5 Cut around the breast, being careful not to cut into any internal organs. Break breast forward, exposing the lungs, liver, heart, gizzard, and small intestines

6 Examine these internal organs carefully. Look for any abnormalities in size, shape, or color. Then compare your findings with the drawings on pages 46 and 47

More on page 130

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MOBILOIL more than meets all requirements for a heavy-duty motor oil set up by the American Petroleum Institute and recognized by the Society of Automotive Engineers.

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KNOW YOUR LIVESTOCK PROBLEMS

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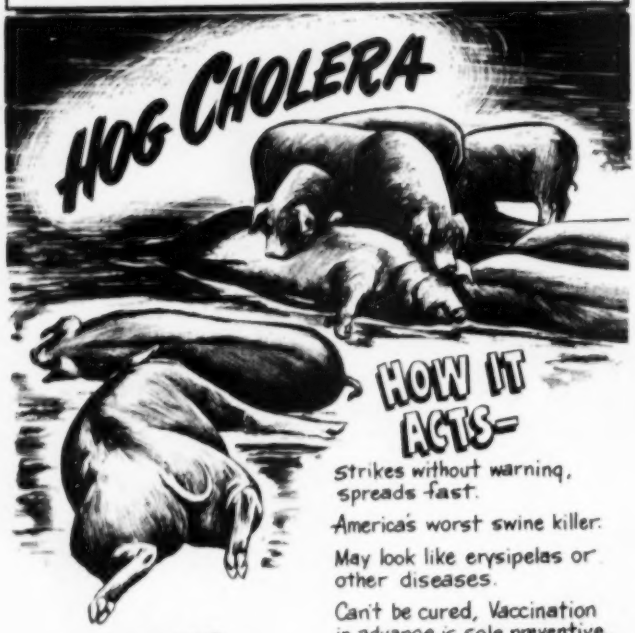

HOW IT ACTS—

strikes without warning, spreads fast.

America's worst swine killer.

May look like erysipelas or other diseases.

Can't be cured, Vaccination in advance is sole preventive.

WHAT TO DO—

Have every pig vaccinated.

Before vaccination, have veterinarian see if herd is in proper condition, to avoid vaccination losses.

If symptoms appear don't guess...be sure which disease you're fighting.

Caution...improper vaccination may result in losses.

Prepared by American Foundation for Animal Health

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J. W. HARCE MFG. CO. Westerville, Ohio

VAC-A-WAY SEED CLEANERS — WEST BEND DISC SHELLERS

How to post a chicken

[*From page 128*]

7 Start examination of digestive tract at proventriculus. Pus indicates P.V.I. condition. Examine gizzard, contents. Presence of feather and litter is trouble sign

8 Open the small intestines and ceca, frequently seat of trouble. Here, worms, coccidiosis, and P.V.I. interfere with digestion of feed and absorption of nutrients

9 Check the ovary, oviduct, and kidneys for signs of pullorum, tumor growths, and blue comb. A pullorum-diseased ovary has dark, irregular-shaped, absorbent yolks

10 Write down conditions found. Use both internal and external symptoms in planning treatment. If in doubt, see veterinarian or poultry-service man. **END**

Answers to farm quizbox

[*Questions start on page 120*]

1. (a) is correct. A raccoon cannot resist a shiny object. He has to touch it.

2. (b) is correct. According to U.S.D.A., this delicious Bermuda fruit is called Monstera Deliciosa.

3. (c) is correct. U.S.D.A. reports that the farmer of today produces more in 1 hour than the farmer of 1900 did in 2 hours.

4. (b) is correct. While these symptoms do not always indicate heart disease, they call for medical observation, according to the Hancock Life Insurance Company.

5. (a) is correct. Dr. Joseph Meites and Dr. E. P. Reineke, University of Michigan, report successful experiments with hormone injections.

6. (a) is correct. The first milk drawn is the lowest in butterfat—the last milk drawn, highest.

7. (a) is correct. The University of Illinois Experiment Station released this information on salt needs.

8. (a) is correct. Economists estimate that about 49 cents will go to farm producers and 51 cents to marketing agencies in 1952.

9. (b) is correct. Its maggot eats nothing but corn borers, according to G. C. Decker, insect specialist, Illinois College of Agriculture.

10. (b) is correct. Seventy-four percent goes for cash expenses, according to a recent study done by Mueller, Reiss, and Cunningham of the Illinois College of Agriculture.

11. (b) is correct. Dr. Mark Keeney, University of Maryland, recently reported that such a pill is in the development stage.

12. (a) is correct. The University of Minnesota developed this method of protection for apple trees.

13. (b) is correct. University of Illinois reports average return of $152.

14. (a) is correct. Trees so planted generally fail, states U.S.D.A.

15. (a) is correct. Such force-feeding lowers milk yield.

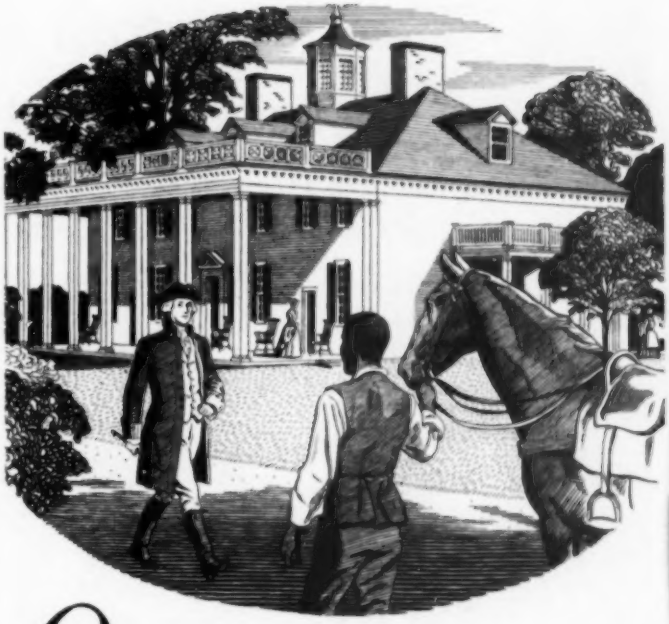
16. (b) is correct. U.S.D.A. reports foam is not harmful to calves.

17. (c) is correct. Well-weathered sawdust is preferable to fresh; the latter should be applied to the soil 2 months before planting.

18. (b) is correct. C. S. Watters, Illinois College of Agriculture, is our authority on the preservative.

19. (b) is correct. The Farm Bureau Management Service reports this figure.

20. (b) is correct. A "kinker" kinks the hay (also crushes), speeding drying by several hours. **END**



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with neglect of intimate hygiene creating another you!

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"Handmade" by sewing machine

The day has come when fancy didos done by sewing machine will help little girls look prettier in home-sewn dresses, and grandmas feel more pert in gay aprons.

For those busy women who delight in giving gifts with a hand-sewn look, the modern sewing machine will be a joy—and a saving in time and money. Many jobs in the making and mending of clothing and household articles can be done faster and better by machine nowadays, too.

All the stitching shown here can be turned out to the tune of a purring sewing-machine motor; *gone tedious handwork!*

The sewing machines available now have been designed to do *more* than ordinary sewing jobs. The whole wide array of them promises new adventure for the home seamstress. It's wise shopping to see demonstrations of as many different makes as possible before buying a new machine. Better yet, try them yourself before you make your final decision. Consider carefully which one does the *most things* that really will be practical for *you*. Don't forget to notice the caliber of *plain* stitching the machine turns out—after all, that's probably what you'll use most.

Then, after making your choice, put away your thimble! Learn how to live with your new servant, and henceforth, let it do your "handwork" for you!

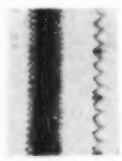
Here is the interesting variety of specific jobs today's sewing machines will do:

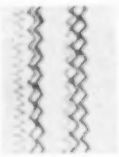
Stacks of socks to be darned need not linger in the mending basket to haunt the woman who makes full use of her modern sewing machine! Adjustments in the feed dog and tension, and removal of the presser foot make darning a snap by sewing machine. The worn area or hole is first outlined with straight stitching—as

[*Turn to page 134*

The zigzag action possible on the new machines—whether it is done by a built-in feature or by use of an easily added attachment—produces many lovely effects. The plunging of the needle from side to side as the material moves forward finishes off an edge with an even, solid border. On some machines, the width of the zigzag can be varied by regularly timed changes of a control lever during continuous stitching. Result: A novel, decorative border.

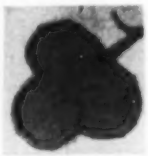
Zigzag stitching, if done with imagination, has lots of possibilities when it comes to making things look pretty! On zigzag machines—or ones with zigzag attachments—rows of novelty stitching are easy to do. Just change the length of stitch, the width of stitch, or the color of thread, and you have interesting variations. The grain line of the material serves as a guide. Colorful borders for luncheon sets and kitchen curtains, fancy yokes for blouses—you can zigzag them out in a hurry and have fun doing it!





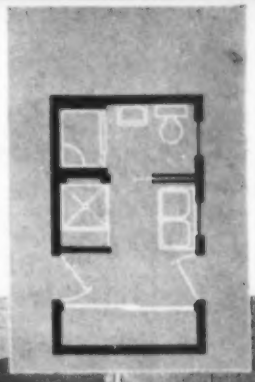
Satiny embroidery-like stitches may be used for unusual, rich-looking effects, as well as for script or block-style monogramming. Little cushion dots and borders for cutwork designs are also easily machine-done with this stitch.

Patchwork appliqué, a favorite decoration for everything from playsuits to quilt blocks, can be tedious and time-consuming if done by hand. On the new machines, appliqué not only goes faster, but the stitches are more uniform and longer-wearing. Lace edging, too, may be attached with this tiny zigzag stitch.



Buttonholes are now being made with a professional touch by means of simplified attachments or, as was this one, merely by adjusting length of stitch and tension on the machine itself. Some machines come equipped to make eyelets and keyhole buttonholes, too. Even *buttons* can be securely attached by machines having zigzag action and a special button "foot."

The room that keeps the whole house clean!



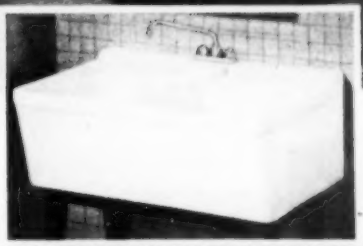
This room was really planned for the kids and the menfolk.

But it's mother who will bless it!

First, there's a mudroom where boots can be hosed down. And next to it, there's a shower with a Crane Lahoma tub. It's particularly wonderful in the summer when barefoot boys, who look so picturesque on calendars, can be kept from leaving not so pretty footprints all through the house.

Sliding doors can be built to separate the toilet area and, on the wall opposite the mudroom, you'll find Crane's popular Duraclay laundrette.

Complete information for this room is free for the asking. See your Crane Dealer or write: Crane Co., 836 South Michigan Avenue, Chicago 5, Illinois.



THIS GLISTENING BEAUTY is Crane's famous Duraclay Laundrette which won't stain or craze. It's a wonderful feature in a room like this because you can catch those dirt-stained clothes before they wind up in a heap on the bathroom floor.

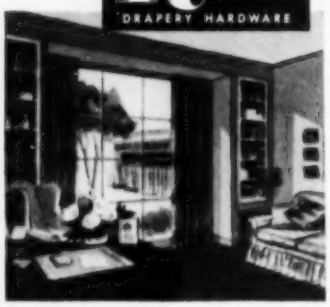
DID YOU KNOW that your Crane Dealer will help you plan the kitchen that just fits the needs of your family. This service is absolutely free and does not obligate you in any way. You ought to take advantage of it!

ONLY CRANE supplies the *complete* water system . . . from pump to faucet. Crane-Line pumps are available in all capacities, for deep or shallow wells. See your Crane Dealer. Benefit from his practical knowledge—and Crane ideas.

COME TO CRANE FOR IDEAS

Beautiful Windows COST SO LITTLE WITH . . .

Kirsch
DRAPERY HARDWARE



Make every decorating dollar buy you the *most* in home beauty. Start at the windows! Be guided by adaptable Kirsch window decorating ideas. And use fine Kirsch drapery hardware. Drapery hardware is *not* all alike, and you *pay no more* for the extra beauty and durability of this *complete* line made by the leader in the business. Kirsch traverse rods, for example, *work* better, and the bone-hard finish lasts for *years*. Ask for . . . *insist on* . . . genuine Kirsch rods for value and dependability.

PULL TO OPEN
PULL TO CLOSE

Free — an exciting new guide "*How to Make Curtains and Draperies.*" Or enclose 25c and receive also the idea book: "*Smart Window Styling.*"

KIRSCH CO., 123 Prospect Street, Sturgis, Michigan
In Canada: Woodstock, Ontario

☐ Please send me your new free guide, "How to Make Curtains, etc." ☐ I am enclosing 25c, please also send your booklet of draping ideas: "*Smart Window Styling.*"

Name _____

Address _____

City _____ Zone _____ State _____

"Handmade" by sewing machine

[*From page 132*]

is usually done in hand mending—then forward and reverse rows of stitching are used to fill in the hole. Jobs like this can be done without lifting the presser bar or stopping to turn the material around.

Some machines even have an open arm over which one may slip a sock, or overall leg to be mended, or a small garment to be sewn.

Fine, strong patching, too, is possible on those sewing machines which enable the user freely to move the material being mended. Without repeatedly stopping the machine, or turning the material, a patch can be neatly and securely applied using straight stitching, or, on some machines, fine zigzag stitching.

Blind-hemming with uniformly tiny stitches similar to those seen in ready-made garments can be done quickly and easily on the new sewing machines, saving much effort in handwork. On some ma-

chines it is done by folding the hem back, then slowly zigzagging so the needle catches a few threads of the garment at regular intervals. On other machines, special easy-to-use blind-hemming attachments do the work for you.

Seam finishing (not shown) to prevent raveling can now be machine-done with a stitch similar to overcasting.

But remember, whether you learn to do 1 or 10 of the "handmade" extras on your machine, that perfection comes with practice. Don't be disappointed if you can't turn out perfect work on the first try. Practice will pay off!

Raised-stitch appliqueing makes interesting variety in design for clothing, cushion covers, or pillowcases. It can be done by covering cord (or gimp) with tiny zigzag stitches. A simple cording foot or accessory is used to do this, and the material is moved in the direction required to follow the pattern.

"Fashion stitching" is the name used by one manufacturer for this lovely embroidery work. Entirely machine-made, this stitching, used on collars, buttons, and pockets, gives a finished, ready-made look to an otherwise plain dress. For this stitch, the feed dog is covered with a tiny metal plate. The material then can be guided freely in any direction so that, as

KEY TO "Professional" PLEATS

Kirsch
Easypleat

Now you can make beautiful pleats with the greatest of ease! No more complicated "figuring" . . . no more tiresome trial-and-error. Professional-looking pleats form like *magic* with Kirsch *Easypleat* . . . in any fabric, any width. The simple directions cover *every* step; even show the width-after-pleating for all three usual widths of material. But — be sure to ask for Kirsch *Easypleat* by name!

TRIPLE PLEATS
Luxurious triple French pleats, formerly a job "for the experts only," will shape-up accurately and neatly for you with Kirsch *Easypleat*. What a satisfaction!

DOUBLE PLEATS
Double French pleats — which get more from your goods — are easy as pie with *Easypleat*. If you can follow simple directions, you can get *fine* results!

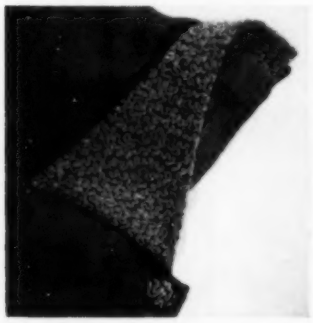
BOX PLEATS
Smartly-tailored box pleats come out decorator-perfect with the help of Kirsch *Easypleat* heading tape, forming hooks, and the simple, explicit directions.

Trust Kirsch to have developed the very *handiest* system for making smart, trim pleats . . . *your* choice of all three types! Ask for the Kirsch product every time . . . you can depend on Kirsch!

Choose the Name you Know — KIRSCH

the machine stitches, the needle "embroiders" a fine continuous line on the material much as a pencil would mark on paper.

This decoration can be done "freehand"; that is, it is unnecessary to trace



any pattern on the material before stitching. Many interesting variations and dainty monograms are possible with this new sewing-machine stitching that looks like handwork.—*Maurine Harris.*

Fill in that wide archway

A wide archway can make a whole room look out of proportion; but narrowed, it can add valuable wall space. Bookcases built onto each side of the arch and topped with a wide cornice board are one solution to the too-wide-archway problem. In this case, the bookcases and cornice board should be painted to match the woodwork in the room to give a unified effect.

The back side of the fill-in bookcases can be covered with wallboard, then painted or papered to match the walls.

You'll find that filling in an archway like this will do much to add a sense of privacy to your home—something you miss with an overwide archway. This small remodeling trick will do wonders toward modernizing an old room.

"So AUTOMATIC it almost thinks for me"

NOW... ENJOY THE LAST WORD IN AUTOMATIC COOKING WITH

AMERICA'S EASIEST RANGES TO KEEP CLEAN

Slip your whole dinner into one of these capacious ovens in the morning and come home to a meal that's done to a turn. Put on your breakfast coffee the night before and have it perking merrily when you get up.

Everything's *automatic* in the beautiful Ultramatic Caloric, specially made for LP-Gas. All top burners, all ovens and broilers light automatically. Oven heat is regulated to *exact* temperatures by automatic control. Automatic Oven Clock Control and Automatic 4-Hour Timer banish pot-watching forever.

We don't have space to tell you all the wonderful features of Caloric Gas Ranges, but, lady, you'll love 'em! Why not see a complete demonstration at your Caloric dealer's soon? Look for his name under "Caloric" in your classified telephone book.

CALORIC STOVE CORPORATION, TOPTON, PA.

No other GAS Range—or any range—has all of these Caloric features!

Automatic lighting of all top burners
Automatic lighting of ovens and broilers
Automatic heat control of ovens
Automatic Oven Clock (optional)
Automatic 4-Hour Timer • Hold-Heat Oven
Hi-Lo Broiler pan and rack
Non-Tilt Porcelain oven racks
Recessed oven light • TriSet Burners
Veri-Clean Broiler • Seamless Construction
Porcelain enamel, inside and out
Triple-coat, acid-resisting white parts

For Men only

Caloric dealers welcome husbands at demonstrations. Men appreciate that sturdy, one-piece front frame of heavy-gauge steel; that durable porcelain enamel, inside and out; that extra-solid construction, everywhere. Those features mean a lifetime of trouble-free service. Remember—59% of all homes cook with gas; *four times* as many as the nearest other fuel (U.S. Census figures).

Guaranteed by Good Housekeeping

(All Caloric models are factory equipped for "Pyrofax" Bottled Gas or other LP Gases.)

STOP PAIN INSTANTLY

COMBAT INFECTION
PROMOTE HEALING

WITH STAINLESS

Campho-Phenique

(PRONOUNCED CAM-FO-FIN-EEK)

USE IT FOR

PIMPLES* ACNE
MINOR
SKIN RASHES

Not only do pimples* heal faster, without leaving ugly scars, but the same thing happens when Campho-Phenique is used on fever blisters, cold sores, gum boils. Wonderful too, for insect bites, cuts and scratches, minor burns caused by book matches, hot cooking utensils, hot water or steam. Just apply Campho-Phenique next time and see how fast this pain-relieving antiseptic goes to work. And it doesn't stain the skin! Get a bottle today.

*Externally caused

Successful Farming is your guide to better farm living.

MEYER *Bale* LOADER

SAVE MANPOWER
THIS LOW COST WAY

Better than two hired hands! Loads 75 bales in 15 minutes: picks them up just as dropped and straightens them automatically. Saves extra labor — saves your baler. No strain or breakage pulling skids or wagons! Ground driven, light draft, easily hitched. Two models — bale deck heights 6'9" and 10'9".

Free! Write for descriptive literature and name of nearest dealer.

MEYER MFG. CO. BOX 680, MORTON, ILL.

MAKERS OF FAMOUS MEYER ELEVATORS

Here's how to

handle your wool

By Richard Hufnagle
Photographs: Author

Special branding paint should be used to mark sheep. Wrong kind of paint will cause wool to mat and will result in a price reduction when wool is marketed

Don't lay fleece on a dirty floor when tying. Dirty wool may result in a lower price

Separate belly wool from tags, dung locks, crutchings, dead wool, eye clippings, and stained pieces. Pack belly wool with the fleece. Sell other separately

To pack, roll fleece in from both edges, flesh side of staple out. Put the belly wool in the middle

Paper twine is nonfibrous and can't degrade the quality of the wool. Avoid packing wet wool, which may mold and result in low price

Use regular wool bags for packing wool. Bags are hard-woven, treated to keep bag fiber from mixing with wool

You'll make more money from your wool if you handle it carefully. Follow the steps illustrated below if you want to cash in on top wool price

Avoid second cuts with shearing clippers. Picture above shows irregular length of wool caused by second cut with clippers

After rolling edges, roll from both ends and tie around direction of final roll. Use a paper twine, not binder or hemp rope

If you must use common sack, turn it inside out and shake clean. Leave sack inside out to keep seam fibers out of wool

Energized **Vertagreen®**

Makes Bigger Yields, Better Quality Crops

Your crops get extra plant food, more growing power from every bag of energized Vertagreen. The extra plant food in Vertagreen feeds crops more completely. Crops grow bigger, quality improves, and you get more cash profits. So Vertagreen actually costs you less in the long run. Growers throughout the nation have proved it's good business to farm with Vertagreen. Order yours today! It's available in a special analysis for crops and soils in your section.

energized
FOR COMMERCIAL CROPS

ORDER EARLY!

Prompt delivery may be difficult on late orders, and you want to be sure your Vertagreen is on hand when you need it!

ARMOUR FERTILIZER WORKS

"I LIKE A FOOD I CAN CHEW!"

Give your dog this *exercise* he enjoys and needs. Helps keep his teeth and gums healthy, too! Feed nutritious MILK-BONE DOG BISCUIT daily—get a package today!

MILK-BONE DOG BISCUIT contains nutrients your dog needs: Vitamins A, B_1, B_2, D, and E . . . Meat Meal . . . Fish Liver Oil . . . Wheat Germ . . . Whole Wheat Flour . . . Minerals . . . Milk.

BAKED BY NATIONAL BISCUIT COMPANY

National Biscuit Company, Dept. SF-4 — **FREE SAMPLE**
Milk-Bone Bakery
110 E. 19th St., New York 3, N. Y.

Send me *free* MILK-BONE DOG BISCUIT. Also Booklet: "How to Care for and Feed Your Dog." (Paste coupon on postcard if you wish.)

Name _____

Address _____

City and State _____ This offer good in United States only.

Cropsaver
SURE IS THE RIGHT NAME FOR MY PICK-UP REEL . . .

It Has Saved Many A Crop Of Down Grain; Boosted Yields From All Standing Grain, Too."

From practically any small grain farmer who has equipped his combine with a *Cropsaver* Pick-Up Reel, such a comment is typical. Experience has shown him that this remarkable unit saves any crop, down and tangled by storm or heavy growth, that cannot be harvested with ordinary equipment . . . boosts yields from standing grain by preventing shattering and by gathering up stalks usually missed by common reels. In other words, it's *double* assurance that, regardless of weather, you can reap much bigger profits from every harvest.

Investigate *Cropsaver* Now

Interesting new brochure shows *Cropsaver* in action, illustrates superior design and construction, describes operation in detail, explains why so many farmers rightfully call this Pick-Up Reel *the best crop insurance they can buy*. Write for your copy today. It's FREE . . . and no obligation.

HARRISON CROPSAVER CO.
524 N. HICKORY ST. • CHAMPAIGN, ILL.

Laughing at Life

The department-store manager overheard a salesman say to his customer, "No, we haven't had any for a long time."

After the customer left, the manager rushed over to the salesman. "Don't *ever* say we are out of anything," he stormed. "Say we will get some."

"But," replied the baffled salesman, "we were talking about *rain*."

In a small town, a male voice called the telephone office repeatedly one day to ask, "What time is it now, please?"

Finally, recognizing the voice, the operator asked, "Jerry, are you going somewhere?"

"Nope," he replied. "Just boiling eggs."

A little boy was making his way to his desk when the teacher stopped him. "Why are you late again, Tommy?" she asked.

Tommy looked a bit tearful. "It was late when I left home."

"But why didn't you start earlier?" the teacher wanted to know.

"Because," answered Tommy, astonished, "it was too late to start early."

"Do Not Pick the Flowers" is a common sign in America's parks. But in Ireland they read more subtly: "Let it be said of these flowers that they died with their roots on."

"Our club's dinner is next week," said Mrs. Peterson. "What are you going to wear?"

"Well," replied Mrs. Smith, "we are supposed to wear something to match our husbands' hair, so I'm going to wear black. How about you?"

"Gracious!" exclaimed Mrs. Peterson. "I don't think I'll go."

The Error of Our Ways

(Calls From the News Columns)

Broken Dishes for Sale, Too?

Stove, refrigerator, garbage-disposal unit, and dishwaster. Reasonable prices. —*Pasadena (California) Independent.*

A Stitch in Time

Radish secret: Sew 'em a few at a time and do it often.—*Pasadena (California) Independent.*

Miracle Machine

With our new floor sander, varnish comes off floors completely and new weeds come through.—*Galesville (Wisconsin) Republican.*

Red-hot Buy!

For sale: 1931 Model-A Ford roasted. Call after 3:30.—*The Westfield (New York) Republican.*

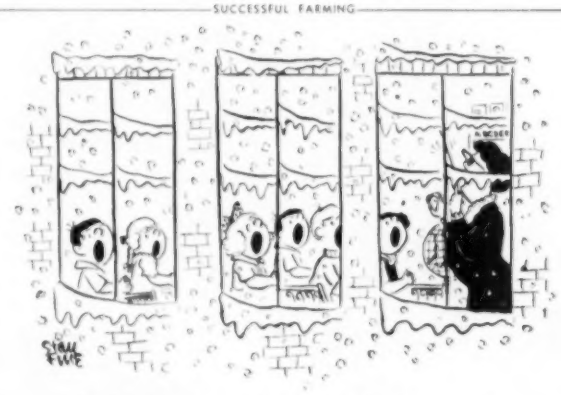
To Match the Decorations?

The groom was tastefully decorated with pink and white streamers.—*Amherst (Nova Scotia, Canada) Daily News.*

Convention That Makes Sense

Mr. and Mrs. C. S. spent Sunday and Monday in Toledo at the thirty-sixth annual Brain Dealers Convention.—*Findlay (Ohio) Republican-Courier.*

SUCCESSFUL FARMING



"Welcome sweet springtime, we greet thee in song . . ."

DO IT THE *easy* A-C WAY

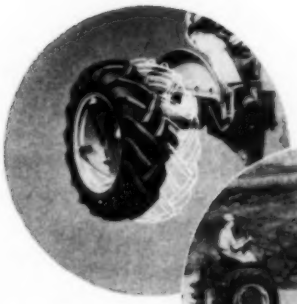
Easier on your land and easier on *you*. That's the new way of farming with a man-conserving CA or WD Tractor.

You simply ease in the clutch, and engine power spaces the rear wheels. *Drive in* to attach the cultivator, and lift it at a hydraulic lever's touch. Easy? Wait till you try it!

Allis-Chalmers tractor cultivation has a new, smoother feel. You can sense it from the steering wheel . . . the level running, the lack of vibration. Reason? The tractor and cultivator were *made* for each other.

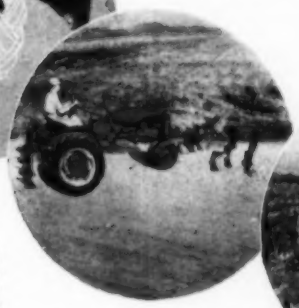
It's beautiful to see the even flow of dirt around small plants, with *precision* cultivation. Depth and wheel spacing just right—that's the secret.

Allis-Chalmers equipment enables you to farm the way you've always wanted to.



POWER SHIFT the Wheels

Match the rear wheel tread instantly to your row spacing. Engine Power spaces the wheels in or out on spiral rails—the way a nut turns on a bolt.



DRIVE IN to Attach Cultivator

WD or CA front-mounted cultivator gangs swing open like a gate. The tractor simply *drives in* for attaching. The cultivator is front-mounted for look-ahead vision.

Hold LEVEL DEPTH Without Forcing

Level running is an outstanding feature of A-C cultivators. Set the sweeps LEVEL and they RUN level, at desired depth. "Parallel linkage" gives quick, even penetration without forcing.

Relax with HYDRAULIC Delayed-Lift

Now you can have neat, weed-free row ends. Hydraulic lift is automatically retarded for rear cultivator gangs. They stay in the ground to end of the rows. (Above—new 4-row WD cultivator.)

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

YOU CAN GET

QUICK RELIEF

FOR TIRED EYES

—with just two drops of Murine in each eye. Quick as a wink, they feel wide-awake. Murine's seven tested ingredients soothe and cleanse your eyes as gently as a tear. So you can use Murine as often as you like. Whenever your eyes feel tired, Murine makes your eyes feel good!

MURINE

for your eyes

La Province de Québec

Write today for your free copy of this beautiful illustrated booklet. It will guide you to a truly different vacation in the picturesque, historic Province de Québec, where you will enjoy French-Canadian hospitality in comfortable, modern inns and hotels.

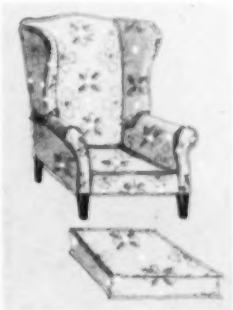
Write today to Provincial Publicity Bureau, Parliament Buildings, Québec City, Canada, or 48 Rockefeller Plaza, New York 20, N.Y.

How to make slipcovers

If you'd like a practical and attractive way to bring freshness and color to your home, to hide worn or soiled upholstery, or to protect new furniture from wear, try easy-to-make slipcovers. They will provide a wonderful, quick change for your rooms this summer. In selecting the material for the cover, be sure you buy only preshrunk or Sanforized fabrics and that the colors are vat-dyed to insure protection from fading both from sun and washing. The choice in patterns is unlimited, ranging from tweeds to large, over-all florals.

1. Measure chair dimensions: inside and outside back, inside and outside arm, inside and outside wing, platform, top, bottom, and sides of cushion. Cut a rough paper pattern to fit each area. For example, if back measures 34" wide and 38" deep, cut a rectangle from paper 2" larger on each side. Number each piece.

3. Remove each piece of paper pattern and lay it out on material. If fabric has a design, be sure to center all main pieces on it, and be sure pattern is laid straight on the grain of the fabric. As you pin the pattern in place, watch for your notations from preceding step, and allow for the 4" tuck-in allowance wherever it's needed so cover will fit tightly.



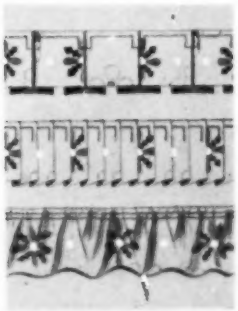
4. Now fit the fabric to chair wrong side out. Smooth each piece from center toward edges, always keeping the grain of the fabric straight. Pin each piece in place on chair. When all the pieces are carefully fitted, pin seams together. Tuck extra fabric into crevices to be sure seams are fitted properly. Slash seams around the curves to get good fit.

6. Next cut the cushion cover. Make sure the pattern is on straight of fabric and pattern is centered on both top and bottom of cushion so it may be reversed. Repeat pinning, fitting, and basting. Close one back seam with zipper or hook-and-eye tape as shown, so the cover may be pulled over the cushion easily for washing and ironing.

7. Last step is to add skirt around the bottom, or it may be finished by tacking the cover underneath the chair like upholstery. To make skirt, measure distance around the chair at platform height and from platform to floor. Add 1" seam for top and $1\frac{1}{2}$" for hem. Length of the strip is determined by type of skirt—ruffled or pleated.

2. Pin paper-pattern pieces on chair, smoothing paper from center to sides as you pin. When all pieces are in place, mark seam lines accurately with chalk or pencil line. Also mark edges where the slipcover will be tucked into crevices of chair with notation: "Allow 4" tuck-in." Leave 2" for shrinkage allowance.

3. Now remove complete slipcover from chair, leaving all seams securely pinned. Insert a zipper or hook-and-eye tape up one side of back and baste in place. Then baste all the seams, and fit slipcover again on chair. Correct any errors that may now appear in fitting. Trim all the seams to ¾" and finish the slipcover by stitching all of these seams on machine.



8. For ruffled skirt, allow twice distance around chair. For knife pleats allow 2½ times the distance. For a box-pleated skirt, allow 3 times distance. Hem strip around bottom with 1½" hem, then form pleats or ruffles. Turn top of pleated or shirred strip down 1" and pin around bottom of the cover and then stitch flat.

More on page 142

Hey, Sis . . . time out for

BREAD AND KARO

Karo Syrup on bread . . . favorite 'tween-meals treat of Young America for three generations! So delicious, so nutritious. Rich in dextrose, food-energy sugar active youngsters need.

Youngsters and oldsters alike love Karo® Syrup on pancakes, waffles, French toast, biscuits. *You* will too!

THERE ARE 3 KINDS OF KARO:
• dark (Blue Label) • light (Red Label)
• and maple-y (Green Label)

Another treat you'll want to try . . .

KARO BAKED APPLES

6 medium cooking apples
1 cup Karo Syrup, Blue Label
½ cup water **6 whole cloves**
1 stick cinnamon

Peel and core apples; cut into eighths. Arrange in baking dish. Combine Karo Syrup and water; add cloves and cinnamon and pour over apples. Cover and bake in hot oven (400°F.) 45 minutes or until apples are tender. Serve warm or cold with cream, if desired. *Makes 6 servings.*

Karo Syrup is available at all grocers in 1½ lb., 5 lb., and 10 lb. sizes.

Now! New Improved VEL* CLEANS MILKING EQUIPMENT

Cleaner... Faster... Easier!

HIGH QUALITY MILK DEMANDS CLEAN EQUIPMENT

Really clean milking equipment lessens the danger of refusal at the milk-processing plant—gives you higher profits. New, improved Vel does an excellent cleaning job, no matter how hard the water. New Vel is not a soap. Vel is a soapless suds recommended by many leading agricultural schools and milking equipment manufacturers.

*VEL is the trade-mark of the Colgate-Palmolive-Peet Co.

BUY ECONOMY SIZE VEL FROM YOUR GROCERY DEALER

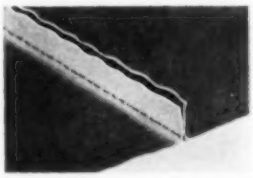
How to make slipcovers

[*From page 141*]

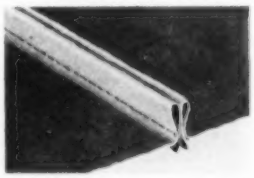
There are many ways to vary slipcover styling. Combinations of plain and a patterned fabric may be used, or contrasting cord may be used to accent the seams of a particularly good-looking sofa or chair. All sorts of fabrics may also be used to give a variety of effects. For example, other than the usual slipcover materials, consider ticking, denim, corduroy, felt, calico, or seersucker.

The type of seams used will also lend variety to your slipcovers. Below are the three most-used styles and directions for making each.

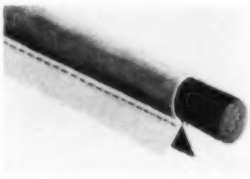
1. Plain seam is stitched ¾" in from the edge of fabric, pressed flat



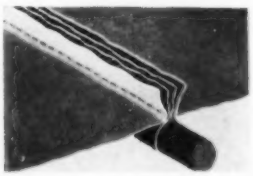
2. French seam is first stitched on wrong side like plain seam, then...



... turned to right side, stitched ¼" down to form raised edging



3. Corded seam is made by covering heavy cord with bias-cut fabric



... then cording is inserted into the seams and stitched firmly. **END**

You'll build or remodel better with Gold Bond

Gold Bond Farm Bulletin

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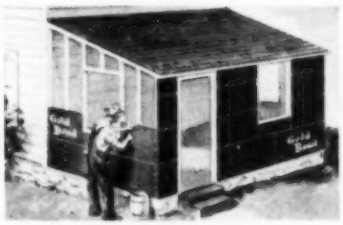

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Take them down and tub them

Ways to wash curtains

By Phoebe Ann Ammon

Spring's the time for freshening things up. Chances are, this includes the curtains at your house.

Respect the word of the manufacturer or dealer from whom you got your curtains as to whether or not they're washable—and *how* to wash them. You'd best try a tieback or other small section of colored curtains before plunging them into the suds—just to make sure of their colorfastness.

Remove all hooks, pins, and metal fastenings; then give each curtain the once-over for rips or worn-thin spots. By all means, spend a little time mending and reinforcing where needed *before* laundering curtains; it will pay off in longer wear and preservation of good looks.

Shake the curtains well, to remove as much of the loose dust as possible before washing. Handle them carefully, because fibers of curtain materials are likely to be weakened from exposure to sunlight and certain gases normally found in the air. And one more prewashing memorandum: Measure the curtains—and put the figures on paper—so you'll be accurately guided in getting them back to the original dimensions.

Washing. To prevent wear and tear on curtains, put them in bags of loose-weave material such as old sugar sacks. Two or three curtains can be put in each good-sized bag (just so they're not packed in so tightly the water can't circulate freely through them). Three or four bagfuls can be washed in the machine at one time. (The curtains are removed from the bags before putting them through the wringer.)

For curtains, as for all other items to be laundered, the importance of soft water can't be overemphasized. Hard water will leave soap curd and dirt particles in the fabric—and that clear, clean look will be impossible to get. Use a good water softener or conditioner in the wash and in the first rinse. Most washer manufacturers give instructions for this in owners' manuals. (Have you read yours lately?)

If a bleach is needed, there is a mild one in powder form which is safe for all fibers—even for water-fast colors. It has water-softening properties, too.

Cotton curtains will come clean more easily if soaked 10 to 15 minutes in cool water (about 85-90 degrees), before washing. If they are extremely dirty, soak them again in *fresh* water. But *never* soak them for long periods in one water, or dirt will be redeposited on the fabric. In most automatic washers, this step may be done by the "prewash" or "soak" cycle.

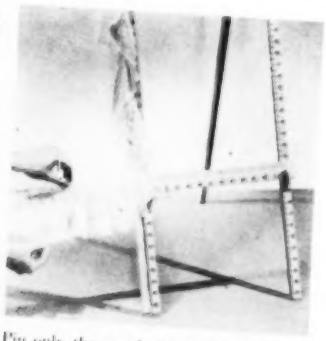
For actual washing, fill the washing machine with lukewarm or medium-hot water and make a rich suds of *mild* soap or synthetic detergent. Wash colored or old curtains 3 to 5 minutes; sturdier ones—such as muslin—10 minutes. If water is heavily soiled, this step may be repeated, washing for just 2 minutes.

Rinse three times in lukewarm water, removing all the water each time. (If you have a machine which spins, this is done for you.) Fold the curtains flat and straight and put them carefully through the wringer—or squeeze them gently by hand. *Never twist or wring them.*

Starching is important, not only for the attractive crispness it gives the curtains, but also because it helps them to shed dust after rehanging. About 4 to 5 cups of diluted starch solution is needed for each pair of curtains. Here's a recipe for a basic starch solution which can be used right in the last rinse—in the washer, if desired: Dissolve 3 cups of starch in 3 cups of cold water; stir in 3 gallons of boiling water. (If you have an automatic washer, check for specific instructions.) Spin dry-

[*Turn to page 146*

To prevent unnecessary strain and twisting of curtains in the washer, put them in cheesecloth bags or in old pillowcases



Pin only the panel of ruffled curtains on the stretcher. Let the ruffles hang loosely after gently smoothing them into shape

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Ways to wash curtains

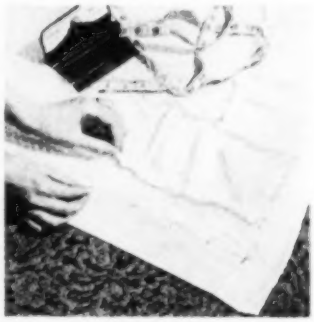
[*From page 144*]

ing is not recommended for starched curtains, because it may destroy some of the stiffness.

Rayon and nylon curtains are weaker when wet and are more likely to stretch or break. Soak them only 5 to 10 minutes and shorten the wash time to 3-5 minutes. Be sure that you use only lukewarm water.

Nylon, vinyon, dacron, and orlon curtains do not require soaking because they release dirt readily. Wash them in medium-hot water, using mild soap or synthetic detergent. Rinsing should be thorough—the first one, at least, being warm. White curtains of these fabrics should be washed by themselves, as they readily absorb colors. These curtains should be "drip-dried," that is, hung on the line while soaking wet. Wringing or squeezing is likely to leave stubborn creases.

Hand washing may be advisable for very sheer or old curtains, no matter what the fabric. For this method, too, use lukewarm, softened water. Soak, if necessary, following the preceding suggestions. An extra-heavy suds of mild soap or other detergent will help float out the dirt and eliminate the need for harsh rubbing. Squeeze the curtains firmly to wash and to remove water, but never rub them on a washboard, and never wring or twist them!



Curtains may be stretched to their original measurements and then pinned to a clean sheet spread smoothly on a carpeted floor

Hang straight panels double over the line; straighten the hems on all sides when curtains are hung and again during drying

Tinting. You may be surprised to see streaks and fading in curtains after the first steps of soaking or washing. Sometimes these are results of exposure to weather and sun, and just don't show up until surface dirt has been removed. Tinting may be the lift required to restore the new, bright look to plain colors and pastel curtains. Use the type of tint which can be used in the rinse water—special ones for curtains are available. For cotton curtains, tint may be added along with the starch, in the last rinse.

Drying is a vital step in the success of your curtain-washing job. If you have a curtain stretcher, use it for cottons (except close-weave materials such as dimities, voiles, and organdies). Be sure to keep threads in a straight line when putting curtains on the stretcher. If you use the type of stretcher with rows of pins, fasten the two upper corners first, then the two lower ones; next pin the middle of each side, and finally, all of both sides and ends.

Curtains other than cotton ones should be dried on a pinless type of curtain stretcher, or carefully hung on a rust-proof clothesline. Fold them in half over the line or stretcher rods, and keep them away from sunlight and direct heat.

Straighten the hems on all sides after the curtains are on the line or rods, and once or twice during the drying. Avoid using clothespins because they leave indentations—and sometimes snags—on the fabric. If it's breezy, a pair of white socks with weights in the toes, tied together at the tops, may be hung over each curtain to hold it on the line.

Ironing the curtains right will add the final touch to your spring-bright window dressings. Curtains which require ironing should be taken from the stretcher or line while still slightly damp and ironed immediately. A damp sponge handy at the ironing board or ironer will help take care of any overdry spots as you come to them. Ruffles, particularly, often need to be sponged as you go. Iron ruffles first, then the panel.

Always iron curtains with the lengthwise thread—crosswise strokes cause the fabric to become wavy or distorted. In ironing plain panels, straighten and iron along hems at the sides first, then finish the center area. Use a small table in front of the ironing board, or cover the floor with a clean sheet to keep curtains from touching the floor during ironing. Don't forget that rayons and all the other synthetic fibers are heat-shy, so the iron or ironer should be adjusted to "rayon" or "warm" settings.

Many curtains of synthetic fabrics require little or no ironing, especially if "drip-dried" as suggested.

Whether you plan to store your curtains for the summer, or whether you're rehanging them for the coming season, the well-done laundry job they have undergone will give them added life and better appearance. END

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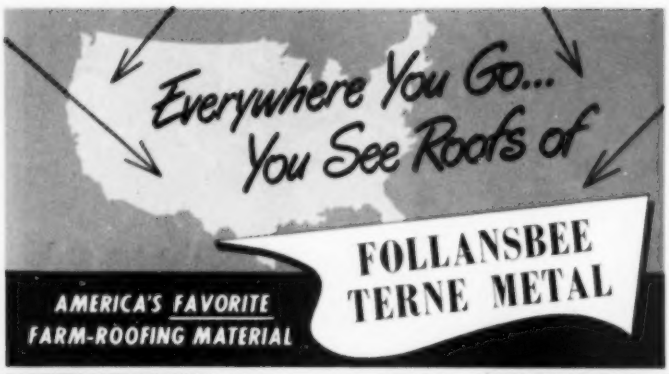

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Thrive on grass

[*From page 53*]

Haller, "the fall pig crop was better than ever. The pigs from pastured sows are hardier, more vigorous, and seem to have more resistance to scours than pigs from sows on dry lot."

Ladino has turned the trick. "Ladino clover," says Haller, "is the pasture crop which has opened an entirely new field in swine feeding." He gives most of the credit to the high protein content of Ladino. Haller likes to think of Ladino as a concentrate rather than a roughage. "And why not?" he remarks. "I've had analyses run on both green and cured Ladino. On a dry-matter basis, it's not unusual for green Ladino to run as high as 30-percent protein and cured Ladino hay up to 24 percent."

The low fiber content is another quality of Ladino which makes it a good feed for swine. Fiber analyses show that first-cutting Ladino has about the same percent of fiber as third-cutting alfalfa.

A look at Haller's sow pasture will convince you that sows prefer Ladino over other pasture crops. His pasture runs about 60 percent Ladino and 40 percent alfalfa. The sows keep the Ladino clipped right down to the ground while the alfalfa grows on. Only when the Ladino growth gets short do the sows turn to the alfalfa for pasture.

Gradual shift to pasture necessary. The switch from a dry-lot ration for sows to an all-pasture ration must be gradual, covering several weeks. During the shift, Haller gradually cuts down on the grain and protein supplement until they both disappear from the ration in 2 to 3 weeks. This gradual shift helps prevent excessive looseness. Haller likes to get his sows on pasture around the middle of May.

Then, around September 1, or from 10 days to 2 weeks before the sows are due to farrow during the summer months, the sows are again gradually shifted from the all-pasture ration to dry-lot feeding. The sows have a tendency to get constipated if the green pasture is suddenly taken away. To prevent this, Haller feeds cut green Ladino and alfalfa in the dry lot for 10 days to 2 weeks (see picture on page 52).

Pasture is rotated. Haller rotates the sows' pasture the same as the summer pasture used for his dairy herd. His present 11-acre field of Ladino-alfalfa is divided into 2 tracts by a fence through the center. Each field is pastured until the sows have the Ladino clipped down to 2 to 3 inches in height. Then the sows are shifted to the other pasture.

Haller figures that sow-pasture rotation is just as important as it is with dairy cattle. It not only gives the grass a fresh, tender start, but allows him to clip the pasture should the growth get ahead of the sows.

First crop is clipped. It's not unusual during the wet spring months for the pasture to get ahead of the sows. In this case, Haller clips the first cutting and puts it up for hay. From then on, the sows have little trouble keeping up with the plant growth. It's just a matter of switching the sows back and forth in the 2 pastures about every 2 weeks (see top picture, pages 52 and 53).

Minerals and salt are self-fed. The only other things the sows are fed during the summer pasture months are salt and minerals. A 3-compartment, welded steel mineral feeder (see picture, page 52) is staked to each side of the fence dividing the pasture. A mineral mixture is placed in one compartment, salt in another, and limestone in the third. Another welded steel feeder is placed in the farrowing pens to feed the sows after farrowing.

Automatic waterers, attached to the farm water supply, take care of the watering chore. A large stock tank is mounted on a wooden platform. This platform is nailed to skids for easy moving. Six automatic waterers are then attached to the tank at the right level. The water pressure maintains a constant water level.

Shade is essential. A high-roofed metal shed, used to house a pea viner, provides shade. The roof is about 20 feet from the ground and allows good air circulation. A layer of corncobs about 1 foot deep helps keep down the dust.

Haller also uses a sprinkler system to keep the sows cool during hot summer days. The sprinkler is no more than a garden hose and nozzle tied to one of the girders. A ladder is kept handy to adjust the spray, which is set as fine as possible.

Two hog wallows also help keep the sows cool. They are hooked to the farm water supply. An automatic float holds the water at a constant level. The wallows are on skids so they can be moved easily from pasture to pasture.

Feeds roughage in winter, too. Roughage also plays an important part in the sows' winter ration. Up to 40 percent of the ration is made up of ground alfalfa hay. In addition, Haller keeps some second- or third-cutting alfalfa before the sows at all times. The hay is fed from racks.

As you can see, there's more to an all-pasture feeding program than just turning the sows out on pasture and forgetting about them. Some important changes in feeding and management are necessary. Haller's pasture-feeding and management program for pregnant sows has been worked out during the past 4 years. In his case, the use of an all-pasture ration for sows is past the talking stage—it's being done.

Ladino, it appears, is the pasture legume swine growers have been looking for. No one knows just how far we can go in carrying young stock and fattening hogs on pasture. No doubt younger animals will need some help from grain. Or, perhaps the answer lies in a new type of hog which will do a better job of converting grass to pork. Only time and experience will tell.

As work such as Haller's goes on, it's not hard to see why swine-feeding experts and swine growers alike have turned their eyes to roughages as a possible means of producing hogs at a lower cost. **END**

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A snake to the acre

That's about what it takes to keep down the gophers, mice, and rats. Though they look sneaky, most snakes are harmless and helpful. Learn to tell good from bad

By Vlad Evanoff

It's surprising how many of those old stories and superstitions about snakes—the tales you've all heard since childhood—still live on and are believed by many persons.

Such as the ones that snakes can hypnotize birds and humans, that there are "hoop snakes" which roll like a wagon wheel by taking their tails into their mouths, that snakes steal milk from cows, or that a coil of horsehair rope around a camp will keep out rattlesnakes.

Actually, all of these beliefs have been disproved time and again by wildlife experts and naturalists. Also, the danger from snakes has been greatly exaggerated, especially when compared with other farm hazards. Machinery, domestic animals, and accidents in and around buildings cause more injuries and deaths in one year than snakes have in a century.

And in addition, most snakes really are beneficial, especially to farmers. That's the reason behind the title of this article and the pictures on this page. Unfortunately, the sight of a snake usually arouses so much fear and emotion in the average person that he either runs away or tries to kill the snake. Thus the snake doesn't get a chance to reveal his habits and is automatically—although unfairly—branded as "dangerous."

But let's hear what naturalists say about the benefits from snakes. They point out that snakes kill mice, rats, and other rodents which can spread disease and do more damage to property than any number of snakes. If a farmer kills every snake on his property, he is only encouraging more rodents, naturalists say. Also, some of the smaller snakes feed on insect pests.

Studies made by Kansas State College show how bull snakes aid Cornbelt farmers. These nonvenomous snakes kill thousands of pocket gophers every year. Any farmer or rancher who kills the bull snake

[*Turn to page 152*

Bull snake eats gophers

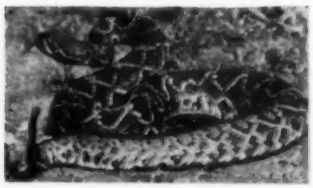
Milk snake is harmless

Water moccasin is poisonous

King snake eats other snakes

Common water snake eats fish

Copperhead is poisonous



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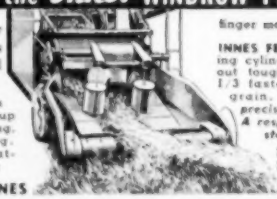

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A snake to the acre

[*From page 120*]

is losing a powerful ally in the battle against rodents.

Of course, there is another side to the snake story, and that's where the facts and your own good judgment come in. The pictures on page 150 will help you judge snakes. This same bull snake and the chicken snakes can be harmful at times, because they enter chicken coops and barns to kill chicks or steal eggs.

Water snakes and garter snakes are great fish-eaters and will catch young game fish in fish hatcheries, lakes, and streams. The big black snakes are notorious destroyers of birds, especially the young ground-nesting species. All of these

> **He who laughs at everything is as big a fool as he who weeps at everything.**
> —*Baltasar Gracian*

snakes, though harmless, shouldn't be encouraged near farmhouses or buildings.

If you have to rid your property of snakes, one of the most practical ways is to remove all places of shelter. Snakes like to hide in rocks, stone-wall fences, woodpiles, shrubbery, underbrush, and weeds. All of these, when found near buildings, should be removed.

Old rickety buildings and stone foundations should either be removed or repaired so that there are no entrances or hiding places for snakes. This is really a twofold deal because when you eliminate snake shelters you also remove places for rats and mice to hide and breed. The fewer rats and mice on a farm, the fewer snakes will be attracted to it.

There is, however, one snake which can be tolerated around farmyards, because it often kills and eats other snakes, including poisonous species. This is the king snake, which constricts or squeezes its prey and is immune to snake venom.

But the trouble is that most of us find it hard to tell the difference between poisonous snakes and the harmless ones. The poisonous snakes are divided into four types: the copperheads, the water moccasins, the rattlesnakes, and the coral snakes. (See pictures on page 150.)

In many areas, harmless water snakes, milk snakes, hog-nosed snakes, king snakes, and others are mistaken for poisonous species. With the exceptions of those found near homes, barns, or areas where domestic animals roam, the best policy in strange localities is to leave strictly alone all snakes you cannot identify positively and immediately.

But despite popular belief, naturalists say there are few actual cases of poisonous snakes deliberately attacking human beings. The venomous snakes of the United States, unlike those found in other parts of the world, prefer to crawl away rather than do battle. And they like to hunt their prey at night and stay hidden during the day.

There are about 135 species of snakes found in the United States and Canada, but only about 20 of these are classified as poisonous. So you can be sure most of the snakes you'll see will be harmless.

Naturally, poisonous snakes will bite if threatened, and most such cases occur when people accidentally step on one or

handle it. And they are dangerous to children who may try to play with them. Also, it must be admitted, the larger venomous snakes are responsible for some deaths each year among cattle, horses, and dogs.

Snakes can be killed by using a long stick or by throwing stones. Despite popular belief, a snake can strike only one-third to one-half its body length. You can approach fairly close with little danger But all farmers, ranchers, and outdoor workers in known snake country should wear high-top shoes or leggings, especially when working in woods, swamps, or fields.

Also, if you live in snake country, you should have a suction-type snake-bite outfit on hand. Even if you never have to use it, its insurance value is great. Study the directions for its use when you get the kit, so you'll be prepared.

Here are the most important steps in the treatment of snake bite:

1. Keep the victim quiet. Apply a tourniquet, not too tight, between the bite and the heart. Loosen this tourniquet every 10 minutes, for a few seconds.

2. Make a small X cut over each fang mark (usually two), ¼ inch deep for small snakes and ½ inch for the larger ones.

3. Apply suction to the wound with a mechanical device if there is one on hand. If not, then suck the wound with the mouth, spitting out the fluid.

4. If there is antivenin or snake-bite serum on hand and you know how to administer it, inject it into the victim.

5. Call a doctor.

The treatment for animals is similar except that you won't get much of a chance to use a tourniquet, as the majority of them are bitten on the head or body. Horses and cattle can take more poison than smaller animals. The death rate among dogs is rather high even with treatment, while few cows or horses die. But the larger animals may be sick for a time or develop secondary infections. To play safe, always call a veterinarian when an animal is bitten.

Finally, if more and more people learned about snakes and their ways, mankind's morbid fear of them would gradually give way to respect. **END**

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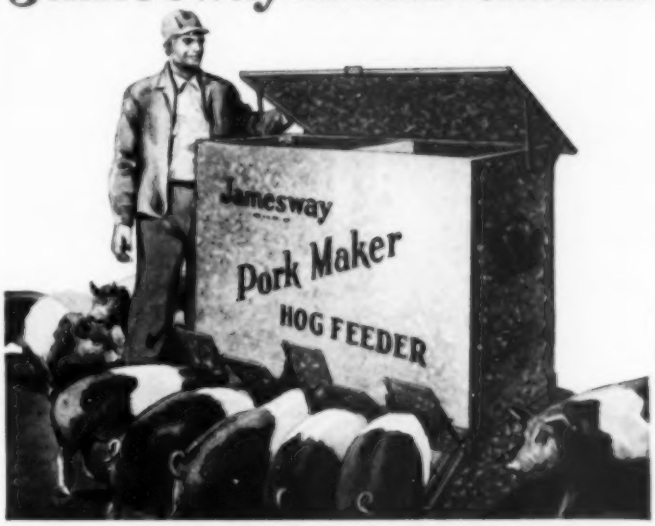

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The right hair style for YOU

By Carol Towers

Don't let current hair styles dictate to you! There's no long or short of it for style's sake alone. Hair is a personality factor. A good style reflects you, the clothes you wear, and the work you do. What's more, face shape, hairline, height, and size must be considered in choosing a style. It's a big job—but a rewarding one—to find the right hair style for *you*.

Face shapes are generally classified as oval, round, square, and diamond. To find your face shape, wet your hair and smooth it back from your face without a part. Consult your mirror and analyze your face.

You may find that you are an "in-betweener" and don't exactly fit into any of the above classifications. If so, experiment with all of the style suggestions and combine the information given for the shape closest to your own. [*Turn to page 156*

← Before ↑ After

Size problem? Really no problem at all for our young miss. She's a tiny girl, and the long hair seemed to weigh her and make her look years older. So, she chose a cute short cut as her best style. A good general rule is to follow your size and height

Photographs: Pease

← Before ↑ After

Hairline problem? A high hairline created a problem for this woman. The brushed-out style accentuated the deep and wide forehead. Her answer: Smooth hair back from the face and break the space with a bang. Upsweep gives the chin an oval look

← Before ↑ After

Face-shape problem? Downward, cover-up lines seemed to make this woman's face even more square. By slanting the hair away from the face in soft waves, she was able to achieve a slenderized style. On a younger face, a half-bang might have been used

"We fool April at our farm!"

says Mrs. William R. Rothenberger of Frankfort, Ind.

"Showers and chilly winds come with April in our part of the country," Lucille Rothenberger, of Frankfort, Indiana, explains, "but we all love picnics, so we just fool the weather and have them by the living room fire."

Busy as she is, Mrs. Rothenberger loves to entertain for her family and friends, and in spite of chores—indoors and out—her hands stay 'party pretty'. "Thanks to Jergens Lotion," says Lucille.

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The right hair style

[*From page 154*]

Oval? The so-called "perfect" shape is two-thirds as wide as it is long and, from a style point of view, looks well with any hair style. The objective of most stylists is to achieve the oval look with all face shapes. Why not follow suit?

Round? Then height needs to be added at the forehead to give length to your face. Curls high on the crown and a soft below-the-ear line will slim your face. Experiment with parts, but you'll find that a side part will be most flattering to your full face.

Square? Then you want to slim down a too-wide forehead and chin. To do this, softness is the key. Smooth lines along the sides and a fluff out below the ears help create a slimmer-looking face. A slanted part and half-bangs provide contrast to the square face outline. A suggested style for an older woman with this face shape is shown on page 154.

Diamond? Balance is your problem, because the widest part of your face is the cheekbone line. Width is needed at both the chin and forehead, so try below-the-ear curls, and bangs. The bangs may be straight or curled, depending upon your individual taste. A low side part will also help add width to the forehead.

Hairlines play an important part in determining the right hair style for you. There are individual problems that must be dealt with personally, but generally there are three hairlines and treatments.

Low hairline? Short, short bangs will give the illusion of a deeper forehead, but here face shape will help you decide whether the bangs are needed to shorten your face length. Soft fluff curls or a pompadour combed back from the forehead will give the idea of a higher forehead, too.

High hairline? The wide expanse between your eyes and hairline needs to be broken with a sweep of bangs or over-the-forehead curls. This is especially important if the hairline is straight. Notice the way our model (page 154, lower left) has corrected her high hairline and wide forehead by adding a bang. She combed her hair back to give a slender appearance.

Widow's peak? Then you probably will want to emphasize it. With a heart-shaped face, this lucky girl has the makings of a perfect page-boy style. Try a center part if your face is narrow enough to use the added width the part creates. But short or long, center or side part, keep the hair smooth at the temples.

Lastly, though not in line of importance, consider your size before deciding upon a new hair style. Personality type often goes right along with size, but here, again, only you can judge.

Little? Like our young model, you appear top-heavy with a large "mop" of hair. You need the softness of a feather cut and, chances are, this light hair style is quite in keeping with your active ways. It's an easy-to-care-for style and good for the busy teen-ager or homemaker.

Tall? Unless your face shape demands height, you'd better stick to the smooth-top styles. And you need figure balance, so heavier and longer hair styles are for you. No need to avoid hair ornaments (jeweled barrettes, flowers, and so forth), but simplicity is a good guide for the tall lassie.

Heavy? Short or tall, if you're on the heavy side, you need slenderizing hair features. A neat up-do will take eye interest away from a chubby chin or a too-thick neck. Waves which slant away from the face are slenderizing, too. A happy medium should be achieved in hair length and thickness.

But remember that the most becoming hair style in the world would be as unattractive as the very poorest if the hair was not clean and healthy. Let a daily brushing and a weekly shampoo be your best aids to hair beauty. **END**

Mobilize your electric equipment!

You can make this three-tiered electric-appliance cart yourself and save endless treks from dining table to the kitchen. Make it of plywood, painted or finished to match your kitchen cabinets. Add two lower shelves for storage of bulky electric equipment and a drawer beneath the top to keep mixer beaters, scrapers, and other items within easy reach.

At one end of the table, install an electric outlet with a 12-foot cord and plug extension. This will enable you to wheel the cart right to the table to make waffles, toast, or coffee.

Do you have a favorite housekeeping short cut? *Successful Farming* pays $5 for each suggestion published. Send your hints to: All Around the House, *Successful Farming*. The unused suggestions cannot be returned.—Editors.

Just the paint for a home full of lively youngsters

IT'S REAL FUN TO PAINT WITH THIS NEW BRUSH—With Pittsburgh's new FLEET-WING Wall Coater, paint goes on far more easily and quickly. Here's a brand new painting tool that is astonishingly light and easy to handle. Covers 7 inches in width at one stroke.

CLEANS IN A JIFFY—New *rubberized* Wallhide is ideal for a home full of lively youngsters because it can be washed so easily. Even stubborn stains such as grease, crayon, ink spots can be cleaned off without harm to the surface.

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Three-way weskit

Three pretty—and practical—complements for popular summer skirts can be made from one weskit pattern. A cap-sleeve or below-the-elbow-sleeve blouse and a versatile vest have been styled from the same basic design. The blouse patterns are identical except for sleeve length, but the vest has a new diagonal buttoned front. The tiny-waist effect is achieved in all three styles by use of back darts and pointed waistline. Novelty cottons, shantung, or linen are suggested summer fabrics for the blouses or vest. The vest is equally as good when made in lightweight wool, velveteen, taffeta, or faille. In teen-age sizes, the weskit fashion offers an easy and inexpensive beginning pattern for an inexperienced seamstress.

Versatile vest is lined for smoother fit. Belt in back is attached with two tiny buttons. The vest can also be worn over one-piece dresses to create a separate effect.

Cap-sleeve blouse is a perfect for piqué. The small, pointed collar will stand up as shown here or it will button high as shown on the sister blouse fashion. A variation of the vest can easily be made by binding off the sleeves and neckline on this blouse.

Below-the-elbow-sleeve blouse with small pearl buttons and a dress-up air about it. Close-fitting cuffs may be pushed up for casual wear. Collar also stands up.

For back views, see opposite page

Blouse with below-elbow sleeves requires 2 yards of 35-inch fabric without nap for a size 14. In a plaid material, an additional ¼ yard is needed.

Cap-sleeve blouse requires 1½ yards of 35-inch fabric without nap in size 14. Both of the blouses require ⅜ yard of 25-inch sheer canvas for interfacing.

Lined vest requires 1⅛ yards of 35-inch material with or without nap for a size 14, and 1⅛ yards of 35-inch lining material. For interfacing, ⅞ yard of 25-inch sheer canvas.

This Advance Pattern is available from local dealers or you may purchase it direct from Successful Farming *by simply filling in the handy coupon below. Pattern is available in teen-age sizes 10-16 and costs 25 cents.*

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☐ 6016 Size.....

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The correct way to sew on a button

There's even a right and wrong way to sew on buttons. Correctly sewn buttons give a smoother fit to your garments and stay securely fastened for a longer time.

First, mark the position of the button using a pin or chalk mark. With a medium length, double thread, start with a backstitch on the underside of the garment and bring the needle up through one hole of the button.

Place a pin across the button between the two holes. Bring the thread over the pin and down through the second hole. Continue sewing button in this manner until securely fastened. Remove the pin.

Hold the button away from the fabric to make certain that there is "room" between the button and the fabric to make a shank. Now wind the thread around these threads to form shank. Bring needle to the wrong side of the material; fasten the thread with several overcast stitches.

A longer shank should be used on suits and coats. This can be made by using a toothpick or bobby pin in place of the straight pin. Buttons that have shanks should be pinned in place from the wrong side of the garment.

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Remodeling gave this family one-floor living from a two-story house

By J. E. Scott

Many old two-story farm homes of 1900 vintage offer little but shelter to their owners. The farm home described in this article was like that. As inconvenient as it was big. But the owners tore off the top story, rearranged rooms, and built in the comfort lacking in the original house.

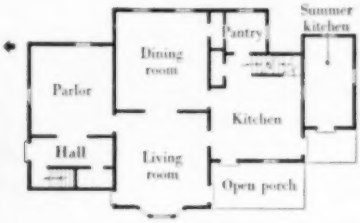
The Harry Henhoffs, Quincy, Illinois, wanted all the comforts of a modern home. And, even though their massive two-story home seemed an unlikely prospect, their careful planning brought results.

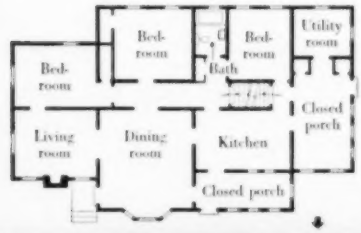
The old home had a great, rambling first floor before the Henhoffs went to work on it. In addition to the usual parlor, living room, dining room, kitchen, and front hall, there were three large open porches, a summer kitchen, and a good-sized pantry. All this was more than enough for the needs of Mr. and Mrs. Henhoff. The towering story above the first floor was of little use and added greatly to the upkeep of the house.

So, the Henhoffs did a good deal of drawing, sketching, and planning to see how the first floor might be rearranged to suit their needs. Finally, a local contractor was consulted for advice. He said the job of converting an old two-story farmhouse into a one-story would be an unpredictable experiment, but that it could be successful.

The crew of carpenters got to work. After the top floor had been completely removed, the once-useless parlor and front hall were partitioned to form a bedroom and a living room. The old living room remained the same, but became [*Turn to page 162*

BEFORE





Before remodeling, this was a typical farm home of 1900 vintage. The house was inconvenient, too large for present-day needs, and expensive to keep up. Traffic from one room to another was difficult because the house had no central hallway. Floor plan (right) shows the room arrangement

AFTER

After remodeling, there's little evidence of the original home left. One and one-half stories were removed and the lumber was used to build the remaining first story into a low, conveniently arranged home. Floor plan at the right shows the handy arrangement of the rooms after remodeling

Photograph: Hedrich Blessing

They show why a Chevrolet truck costs less to own and operate

Just about two and a half million users of Chevrolet trucks are proving this fact every day: You can't buy a better truck *to save your money*.

You save when you buy. You save on operation and upkeep. You save on getting the job done fast and right. You save when you trade.

And along with these savings, you get a rugged dependable truck that's a real satisfaction to drive, with Advance-Design features that put Chevrolet ahead of the field.

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Saves you money on purchase

Price the Chevrolet truck that's right for your work. You'll find it lists for less than any other make of truck of similar size and capacity. Here's an immediate cash saving that Chevrolet offers.

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Self-Cocking Action	✓	✓		✓
Loading Platform	✓			
Side Thumb Safety	✓			✓
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One-floor living

[*From page 160*]

the dining area in the new plan. The old dining room then became a bedroom and the central rear hall.

Converting the rear of the house was a bit more complicated. The pantry and the summer kitchen both extended out beyond the main section of the house. This called for removal of these extensions, and the building of an entirely new corner section.

The squaring of this area made ample room for both a bedroom and a bath, plus the new stairways to attic and basement. The old kitchen, far too big for convenience, was cut to half the original size and then completely refinished with new cabinets and equipment.

The old summer kitchen and open porch at the rear were enclosed. Five casement windows were added, making it an ideal spot for summer meals. These casement windows were made from 10 above-door transoms in the old house.

Another saving was made by salvaging the woodwork from the original house. By sawing the old 6" woodwork in half, then refinishing and bleaching it, modern, narrow window trim was obtained for all the windows.

Still more money was saved by using the old porch pillars as supports for the patio along one side of the new house. Of course, the lumber taken from the old house was more than enough to supply all the needs for the new construction. The cost of the entire project was limited to the labor, new windows, and interior finishing.

This remodeled farm home is now as modern as any new home. But, if you have an old two-story house which might be cut down, do some pretty careful planning before you begin work. All two-story homes can't be cut down. In some, even if you could take off the top story, it would cost more than a new home.

So don't begin knocking out the old walls until you are sure you'll be saving money and getting what you want in a home. If you're sure, then go ahead. **END**

Ladino found to reseed itself

Natural reseeding of Ladino the second pasture year has resulted in a vigorous Ladino clover-bromegrass pasture during the third year.

Farmers are finding that seedings they thought were gone have-come back the third year. Plant counts were taken at the end of the second pasture year at Michigan State College. They showed that, even though the original taproots were dead and the "runners" on top of the ground were weak, reseeding gave rise to 26 new plants per square foot. The seedlings supplied more than enough plants for the third and later pasture years.

This is believed to be the first experimental evidence that Ladino clover reseeds itself. Though old plants may suffer winter injury, Ladino's ability to reseed and form new seedlings will help maintain a good stand of Ladino clover in a well-managed pasture for several years.

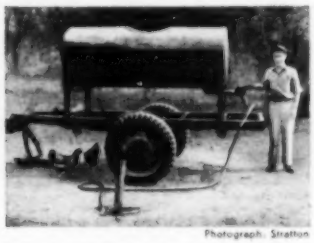
April

Poultry pointers

Ladino cuts corn needs. Ladino clover is worth $100 an acre to egg producers, according to experiments at the Ohio Experiment Station. Earl N. Moore, poultry specialist, points out that in tests conducted since 1949, hens on clover pasture produced more than confined hens. Mortality was nearly cut in half, and corn and minerals for hens on pasture cost about half as much as for confined flocks.

Hens were moved from laying houses the last week in April and remained on the same area until nearly November. Shortly after the hens were removed from laying houses, day-old chicks were started on the built-up litter. This management system allows poultrymen to use building facilities for young birds and at the same time maintain their laying flock on pasture with a temporary range shelter.

Moore adds that placing day-old chicks on old, built-up litter still is a debated question. However, the mortality rate of day-old chicks under this management system has not been excessive.



Photograph: Stratton

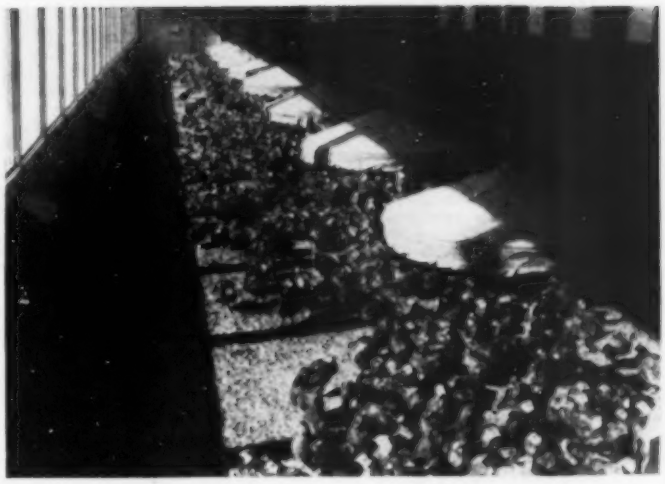
Trailer water-tank medicator. A government-surplus 300-gallon trailer water tank (see picture above) comes in handy for Forrest Jasper, Hillsboro County, New Hampshire, to treat poultry diseases on the range. The tank is filled with water and medicines. The range pipe line is shut off and drained of water. Then the tank is towed to the range and connected to a special outlet in the pipe line with a common garden hose. Medicated water is allowed to flow through the pipe line.

Welded legs raise the tank, enabling Jasper to fill 55-gallon range water barrels with little trouble.

His 5,500 to 6,000 birds required 600 gallons of water daily. At the time the photograph was taken, he was treating for blue comb with 5 quarts of a commercial fertilizer known as muriate of potash to 300 gallons of water. He planned a week's treatment for blue comb.—*C. L. S., New Hampshire.*

Supply clean feed and water. Clean water and feed are two important factors in reducing many internal parasites of poultry. Most feeders are designed to prevent contamination of the feed, but more attention should be given to having a clean water supply at all times.

[*Turn to page 164*



LOOK HOW THESE CHICKS GO FOR SUNSHINE!

Notice how they left the brooders to huddle into the warm, health-giving sunshine—how they shun the cooler, darker areas.

This picture was taken in the fall. In winter, when the sun is lower in the sky, a much larger area would be warmed by sunlight coming in through the large windows.

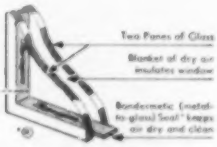
Ordinary windows won't do an adequate job. You need large windows, facing south, to catch winter sun. A roof overhang can shade these windows from the high sun of summer. To get the most daylight, keep the windows free of cross members that cut down light and catch dirt.

To keep interiors warmer, drier and more healthful, use *Thermopane insulating glass in them. *Thermopane* keeps the heat inside because there's a blanket of dry insulating air sealed between its two panes. Condensation is far less likely to form on windows of *Thermopane*. The windows stay cleaner, and there's less money spent on painting and repairs to sash and building.**

***Thermopane* is the easiest way to insulate windows. You leave it in all year. It may be used in fixed or opening sash. *Thermopane* is sold by glass and building supply distributors and dealers. Mail the coupon for information.**

LOF GLASS *Thermopane*

LOOK FOR THE NAME ON THE SEAL BETWEEN THE PANES



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Danger of Disease

Among Baby Chicks

Success in raising Baby Chicks depends largely upon proper care and management. Readers are warned to exercise every sanitary precaution and beware of infection in the drinking water. Baby Chicks must have a generous supply of pure water. Drinking vessels harbor germs. Drinking water often becomes infected with disease germs and may spread disease through your flock before you are aware. Use preventive methods—use Walko Tablets. For over forty years thousands of poultry raisers have depended upon them. You, too, can rely on Walko Tablets as a valuable antiseptic to aid in preventing the spread of disease through contaminated drinking water.

Remarkable Results Raising Baby Chicks

Mrs. C. M. Bradshaw, Diagonal, Iowa, writes: "I have been using Walko Tablets for 35 years with splendid results. I would not think of trying to raise Baby Chicks without them. I also use them for my grown birds with the same satisfaction."

You Run No Risk

Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 60c, $1.20, $2.50 and $4.00.

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Builders of TOMORROW'S *Foods* TODAY!
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Poultry pointers [*From page 163*]

Poultry specialists at the Purdue Experiment Station say a frequent change of water and a thorough cleansing of the containers are the best aids in combating internal parasites.

Protein requirement for laying hens. Laying hens need 15 percent protein in grain-and-mash rations, says Irving J. Mork, North Dakota extension poultryman. Mork suggests you buy a high-protein laying mash and then feed enough grain with it to bring the protein content down to 15 percent.

To figure out how much grain to use with different protein mashes, add the protein content of grain to the protein content of laying mash. Then, divide total protein content by total pounds used. You will have the right proportion of grain to mash when your answer equals 15 percent.

Cracked eggs costly. Cracked eggs cost Ohio farmers nearly 3 million dollars every year, according to a study by poultry specialists of the Ohio Experiment Station. Egg-handling practices of 80 producers in central Ohio were included in the study. An average of 8.8 percent of the eggs were cracked from laying time until they reached the wholesaler.

The study showed that the oftener the eggs are gathered, the fewer are broken. Less egg breakage also occurred when producers used wooden baskets rather than wire baskets or feed pails to gather eggs. Feeding oystershell in the mash as well as in hoppers reduced breakage.

Fewer eggs were cracked when they were cleaned with an electric emery-cloth cleaner than when cleaned by a hand emery brush. More eggs were cracked when they were washed with water than by either of the emery methods.

Piling can be costly. Recently we talked to a poultryman who had lost 10 or 12 chicks from piling. It happened during a spring wet spell when it became necessary to clean out the brooder house. The chicks were frightened when new straw was being spread over the floors, causing them to pile up in the corner. Before the mess could be undone, several had smothered. The owner said the chicks were not used to the straw because cottonseed hulls had been used for litter.

One way to get around this problem is to fence the chicks off in one corner. Even then, keep a close eye on them. The same goes for old hens when you're adding new litter or doing some culling.

Confined pullets need special ration. Chicks raised in confinement, without the aid of pasture vitamins and minerals, will need special ration. Excellent results can be obtained if the needed vitamins and minerals are added to the confined pullets' growing ration. In addition to the regular supply of corn, oats, and protein supplement, add 5 pounds of alfalfa meal, 2 pounds of minerals, and 3 ounces of feeding oil (containing vitamins A and D) per 100 pounds of feed.

Schneider

Replace cardboard tops with ½-inch-screen tops to give chicks air when moving from hatchery to farm. Then crisscross boxes in car. Open window will also help

1,061-bushel potato record

A few years ago, farmers raising potatoes on a big scale in Michigan considered a yield of 300 bushels per acre quite a record. In fact, they formed a club of growers who had achieved that mark.

Things are a bit changed today. The new potato king of the state, Rene Van Acker, of Wallace in Menominee County, came through with a record-breaking yield of 1,061.4 bushels per acre on 8 acres. And he did it on a farm that was considered "run-down" a few years ago.

You might guess that a yield of well over 1,000 bushels of potatoes per acre took some doing—and you're right. The field got applications of barnyard and green manure and commercial fertilizer.

Alfalfa grew on the field in 1949. In 1950, Van Acker put it in oats and sweet clover, with an application of 300 pounds to the acre of 3-12-12 fertilizer. In the spring of 1951, he plowed the sweet clover under as a green-manure crop. After spring-plowing on May 25, he planted his potatoes on May 28. Before planting, he applied 200 pounds to the acre of 0-20-20 commercial fertilizer. At potato-planting time, he applied 1,000 pounds to the acre of 3-12-12.

The barnyard manure was applied in the fall of 1950 and in the spring of 1951, 15 loads to the acre each time.

He planted certified Russett Rurals, spacing the spuds 12½ inches apart in rows 32 inches apart. That's 31 bushels of seed potatoes to the acre. To protect his prize field against blight, he sprayed 10 times with the fungicide Dithane. Insects were controlled with DDT.

To control weeds, Van Acker dragged the field 6 times in the spring before plowing. During the growing season, he went over the field with a weeder twice and a cultivator 3 times. Frost came on September 29, and the potatoes were harvested soon after that. Of the total yield of 1,061.4 bushels per acre, 978.9 bushels per acre graded U. S. No. 1.

When these farmers saw the new Ferguson "30" walk away with three 14-inch bottoms in tough sod, they wondered where all this power came from. Even their ears fooled them, for the Ferguson engine is deceptively quiet . . . a tribute to precision engineering. The secret of Ferguson power, of course, is a new valve-in-head engine with far greater power and torque. And this power, combined with the one and only Ferguson System, gives a range of performance on *all* farm jobs that is unmatched by any other tractor!

Get a "Showdown" Demonstration!
Your friendly Ferguson Dealer will be proud to demonstrate this performance on your farm . . . on *heavy* jobs as well as light ones.

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FERGUSON TRACTOR and 63 FERGUSON SYSTEM IMPLEMENTS

make DEEP seedbeds

with the HYDRAULIC

RAM DISK

The deep-cutting RAM DISK tripe in and out of the ground like a plow! Hydraulic lever sets it shallow, or in to the hubs. Powerful ram action makes seedbed inches deeper. Reduces air pockets. Slices root clumps and clods. Makes mincemeat of trash. Helps every seed germinate. Skyrockets yields!

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Gangs angle to three positions. Husky girder frame bears down. Extra-heavy, notched blades of front gangs rip up sod. Make stalk mulch. Conserve soil and moisture. Bury stalks for clean plowing. Death to insects!

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YOUTH GOES ON RECORD

Clothes sense

Panel members: Seated, left to right, Elaine Silverborn, 14; Dorothy Dingledine, 16; Ruth Roder, 16; Mary Lou Gottschalk, 16; and Nancy Hook, 15. Standing is Evelyn Gottschalk, 13; and on the floor, Ann Biglow, 13; and Joan Weckler, 15. All are in 4-H

By Betty Camp

"Mother sometimes pays $30 for one dress. I can make *three* for less than that and have exactly what I want. That's why I'm glad I learned to sew."

Dorothy Dingledine, attractive high-school senior at Fort Atkinson, Wisconsin, who entered a tailored dress in the 4-H state contest last year, makes most of her own clothes. "You learn to appreciate quality and fit when you work with materials and choose patterns," she reasons.

It was a Thursday evening, and Dorothy and several other members of the Oakland 4-H Club were curled up in Mrs. Wilfred Gottschalk's living room discussing the popular topic: "What does a well-dressed high-school girl wear?" (Although the girls go to three different high schools—Jefferson, Cambridge, Fort Atkinson—and to Ripley country school, they get together faithfully twice a month for Club meeting.)

This evening, before refreshments, they had reached some sound conclusions on what a girl's basic wardrobe should be and how to have practical, attractive clothes that help a girl's confidence.

How did the rest of the girls feel about making their clothes?

Ruth: I haven't tried suits or coats yet, but I make summer cottons and sports clothes. My folks are so proud that I can sew, they'll buy me all the material I need.

Mary Lou: I stick to cottons, too. If you spoil your material, you're not out as much as with more expensive stuff.

Elaine: It's a lot cheaper when you sew. I buy most of my good clothes, but Mother helps me make wool skirts and summer things.

What about clothes money? Do the girls earn it, get allowances, or ask Dad for money?

Elaine: My folks pay me $1.20 a week for washing eggs. I'll be in high school next year, so I'm saving it for clothes.

Nancy: This summer I earned money taking care of children. Most of it went for clothes. I don't get an allowance.

Ruth: I don't either, but Mom pays me for work at home.

Mary Lou: My sister and I get allowances once a month. We shop only twice a year, so I save it and try to plan what I need in advance.

How about that? Do the other girls plan their wardrobes on a long-term basis?

Dorothy: We should. It's easier to have a balanced wardrobe that way, but I'll admit I've never done it. I usually get something new for a dance or a Club function, and then buy things when I need them.

Nancy: Me, too. This summer I had to have all new clothes for a music clinic.

Ruth: I like to take advantage of sales, especially after-season markdowns.

Nancy: You have to be able to tell a good bargain, though. Some of those sales are just for gullible shoppers. (Most of the girls thought they could tell a bargain when they ran across it.)

Dorothy: When you know you have to wear the things you buy whether you like them or not, you soon learn.

Nancy: You can be sure you're not getting gypped if you look for labels of good firms. You get to know the stores you can depend on after a while, too.

[*Turn to page 168*

"To own life insurance is to have success of a most basic sort"

A message suggesting a point of view especially helpful to younger men, by **CHARLES E. WILSON** *President, General Motors Corporation*

"SUCCESS for the individual, I think, comes down to three very personal things. It is accomplishment. It is freedom. And it is satisfaction.

"That being the case, the man who has started a life insurance program has achieved success of a genuine order.

"He has taken the first step along today's straightest road to family security. And *that* is accomplishment.

"He has found new freedom from an economic worry that often holds men back in their undertakings.

"And he enjoys the satisfaction which comes when we put first things first.

"Today, more than 80 million Americans own life insurance. Aside from the advantages this represents to so many, it is reassuring for another reason. It means that in these times when individual initiative is often valued too lightly, 80 million Americans have had the courage and practical good sense to provide for themselves on their own."

★

WHY POLICYHOLDERS ARE SO LOYAL TO NORTHWESTERN MUTUAL...

This company is one of the six largest. It has more than 90 years' experience and an outstanding reputation for low net cost.

This emphasizes that there are significant differences among life insurance companies. It is one reason why each year nearly half the new life insurance issued by this company goes to those already in the Northwestern Mutual "family."

Have you reviewed your life insurance program within the last two years? It would be wise to do so. You'll find real advantages in calling upon the skill and understanding of a Northwestern Mutual agent.

KARSH, OTTAWA

A NORTHWESTERN MUTUAL POLICYHOLDER. *Mr. Wilson's first life insurance was a gift from his father on his 21st birthday, while he was a student apprentice in engineering. Mr. Wilson now owns 8 Northwestern Mutual policies.*

The NORTHWESTERN MUTUAL *Life Insurance Company*

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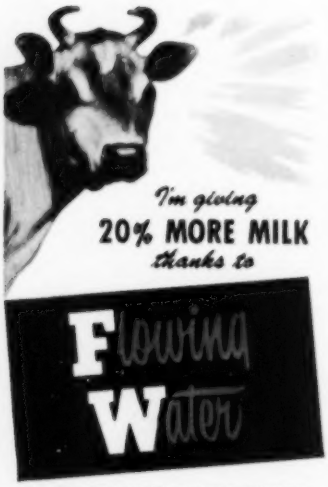

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Rigid—won't twist. Tilts. Alum. or galv. finish. Install for lifetime improvement.

FREE LITERATURE **WRITE TODAY**

CLAY EQUIPMENT CORPORATION 421 Hood St. Cedar Falls, Iowa

Clothes sense [*From page 166*]

Ann: One thing in favor of planning your wardrobe is that your clothes go together better. My favorite color is blue, so I pick colors that blend with it.

The girls agreed that picking the right clothes depends on your activities and the climate where you live. But there are basic garments which will assure any high-school girl a well-rounded wardrobe. To those she can add accessories and extras to fit her needs.

Nancy: I think every girl should have at least one nice suit to wear to church and when she goes to the city. I like gray or some other neutral shade so you can wear bright colors with it.

Dorothy: It should be tailored, too. You look overdressed in fussy suits.

Mary Lou: Sometimes I like to wear suits to school. I have four of them.

Most of the other girls preferred sweaters or blouses and skirts for school. Currently, their style in slipover sweaters is short-sleeved, either tucked in or left out of skirt bands. One thing they stressed: Sweaters should be well fitted, not baggy.

Dorothy: You need five or six slipovers and a couple of cardigans. I think we'd all love to own a cashmere for dress, too. As for skirts, two or three in neutral colors and maybe one plaid are enough.

Joan: Tailored skirts always look smart, although pleats are coming back. It all depends on how chubby you are.

Evelyn: I prefer blouses to sweaters for school because you can wash them oftener and they always look fresh. I think a girl should have about five cotton ones—mostly white so you can wear bright-colored scarves with them. I like tailored shirts and plain blouses. Frilly jobs look cheap unless you pay a lot for them.

Mary Lou: No one has mentioned dresses. Some girls look better in them than in skirts and sweaters.

Joan: I like dresses. I have two or three jerseys.

Ruth: One-piece dresses are slimming, too, but dresses are more for good. They aren't worn much at Jefferson School.

What do the girls wear when they "dress up"?

Dorothy: Most of our dances are sport, and we wear sweaters and skirts and anklets. But I think every girl needs at least one good dress. It's the material that makes the difference as to what is dressy.

Nancy: I hate frills and ruffles. Once for a party I bought a peach-colored taffeta with a veiled skirt and inverted pleats. I think I wore the thing once. It was just a waste of money.

Ruth: Dark colors are good-looking for dress.

Dorothy: I don't think high-school girls should wear black, though. We've got plenty of time to wear black when we're older. There are so many pretty colors to wear now.

What about coats, other overclothes?

Joan: Usually you need two coats, one for school and a good one for Sundays. Fleece coats are popular around here now. I like water-repellent jackets, too, because they're easy to slip on.

Dorothy: It's so cold up here you need a pair of wool slacks, too.

The girls wear shorts, cotton slacks, and blue jeans at home. Jeans are practical around a farm, but what about wearing them to school?

Elaine: We wear them to country school. But when we get in high school, I think they'll be out of place.

Nancy: On Fridays most everyone wears jeans so we can wear them to football games after school.

Dorothy: I don't, because they look horrible on me. Some girls wear jeans whether they look good in them or not. They're all right for the lowerclassmen, but when you get to be a junior and senior, they're out of place. Besides, boys don't like them.

Mary Lou: I love them, though, especially around home, and wouldn't be without a couple of pairs.

What about accessories? Do they wear heels and hats for dress?

Nancy: I usually wear a hat to church, but that's about the only time. It's too cold for hats here in the winter. Most of us wear scarves to school.

Only two of the girls own a pair of dress shoes with heels.

Mary Lou: I seldom wear them, though. Suede flats with hose look nice for dress and are more comfortable. Mostly we wear saddles and loafers.

How do they feel about fads and current fashion trends?

Ruth: I don't believe in going overboard for fads just because everyone is doing it. You should wear what looks best on you and what's comfortable.

Nancy: I remember girls wore boys' neckties at Cambridge for a while. Another time they pierced their ears for earrings. It seems silly now.

Elaine: Skirt lengths are a fad, too. I think a girl's figure and height should decide how long her skirt is. (Most agreed the average girl's best skirt length is generally midcalf.)

Here, then, is the Oakland 4-H Club's summary of a basic wardrobe for a high-school girl who lives an outdoor farm life:

1 tailored suit in a neutral color.
1 sport dress in a jersey or wool.
1 dress for church and special occasions.
5 or 6 slipover sweaters, 2 cardigans.
4 or 5 cotton blouses.
2 or 3 skirts in neutral shades, 1 plaid.
2 coats, one for dress.
1 heavy jacket, preferably waterproof.
1 raincoat and rubber boots.
1 hat for dress.
2 pairs of walking shoes, 1 pair of suede flats for dress.
1 pair knit gloves, 1 pair of mittens, 1 pair of dress gloves.
1 pair of wool slacks, 2 pairs blue jeans.
8 pairs bobby socks, 2 pairs hose.

Colorful scarves, dickeys, jewelry, and belts—as many as you can afford.

Their other suggestions were: For a wardrobe that goes together, choose a basic color becoming to you (navy blue, beige, gray, brown, or black), then build your wardrobe around it. When shopping, look for quality and choose simple and tailored clothes. Try to plan your wardrobe on a long-time basis, but keep it flexible enough to allow for such things as bargain sales and that "something new" for a special occasion. Learn to sew and you'll enjoy your clothes more. **END**

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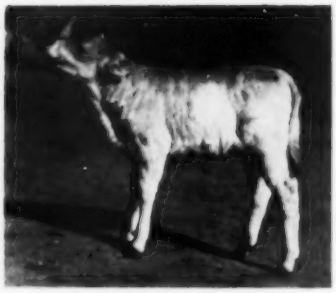

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SCIENTIFIC FARM-ACEUTICALS SINCE 1893

Happen to a hen

[*From page 17*]

you trouble. However, often these diseases are complicated, and many times more than one attack at the same time. If you're not positive of your diagnosis, check with your local veterinarian or poultry-service man.

One dead bird is your clue that a disease may be lurking in your chicken house. By immediate posting, you'll get the jump on the disease, enabling you to nip it in the bud by prompt treatment.

Just what effect does disease have on the attacked organs? In general, they become swollen, get reddish, and cannot perform properly. As a result, the chicken is unable to live and produce normally.

The digestive and respiratory systems are most often attacked by diseases. However, organs such as the liver, spleen, heart, and kidneys also are attacked by diseases and show many changes in appearance because of the attack.

"Colds"

The respiratory tract is attacked by various disease-producing agents causing what are commonly known as "colds." When these "colds" hit, the sinuses become clogged with mucus, the eyes appear swollen, and breathing is difficult. When neglected, the symptoms become complex, as shown on page 46. The "cold" also may extend to the lungs, which become inflamed and congested with blood and mucus.

Most "colds" are caused primarily by bacteria. Sulfathiazole has proved helpful in combating these bacterial "colds." Treatment should be started when trouble is first observed. Mix 1 pound of soluble sulfathiazole powder in a gallon of soft water. Then use 1 ounce (2 tablespoonfuls) of this mixture in each gallon of poultry drinking water for 3 to 5 days. Many commercial products containing sulfathiazole are available.

Pneumonia

When "colds" develop, they interfere with the oxidation of blood, and pneumonia often results (see pneumonia-diseased lung on page 47). When pneumonia attacks, the inflamed region of the lung becomes firm and permanently damaged. The bluish-gray color of the lung is easily distinguished.

In most cases, pneumonia is nothing but an advanced "cold." A majority of the affected birds will recover. Treatment is the same as that used for "colds." The main thing is to keep birds comfortable.

Laryngotracheitis

In the upper right-hand corner of page 47 is a diseased larynx and trachea. This disease, laryngotracheitis, causes gasping —which results from the inflammation of, and bleeding into, the trachea. Death loss often is heavy when this disease strikes. Laryngotracheitis is caused by a virus and can be prevented with laryngotracheitis vaccine.

In areas where laryngotracheitis is an annual problem, it is best to vaccinate when the flock is from 8 to 12 weeks of age. Never allow older birds to mingle with the younger ones. Should the disease strike, make every effort to keep the birds comfortable and prevent drafts. An inhalant spray helps some.

Once started, laryngotracheitis spreads rapidly to all susceptible birds in a flock.

There isn't a good "cure." Most of the birds which recover have permanent immunity. When laryngotracheitis strikes an unvaccinated laying flock, there is severe gasping, a number of birds die, and production drops to almost nothing. Production recovers very slowly, taking 6 to 8 weeks.

Cholera

Some diseases affect several organs. Cholera, for instance, shows up in the heart, liver, spleen, and kidneys.

Numerous small hemorrhages can be seen on the heart during a typical cholera attack. The cholera germs grow and multiply in the blood stream and give off a toxic substance which causes some of the small blood vessels to rupture, especially on the heart's surface.

Cholera also causes an inflammation of the kidneys, interfering with the elimination of waste products from the body. The kidneys react to the cholera toxins, becoming swollen and redder in color than normal.

Cholera affects both the liver and spleen in the same manner. The disease causes changes in these organs which often are fatal to the chicken. The cholera liver usually is swollen, inflamed, either purple or wine-colored, and streaked with tannish areas.

Fowl cholera is caused by a bacterium (*Pasteurella avicida*) and can be rapidly controlled by treating the birds with sulfamethazine and sulfaquinoxaline. These products are made by many companies and have labeled instructions which must be closely followed. These sulfa drugs are used at the rate of 1 ounce (1 ounce equals 2 tablespoonfuls) per gallon of drinking water for 2 to 3 days. This treatment should be repeated after a 3- to 4-day interval.

Blackhead

Both the liver and spleen are affected in the same manner by blackhead. While it is generally considered a disease of turkeys, most chicken flocks carry some infection, and individual birds sometimes develop livers which look like the one shown in the drawing. However, the liver is not greatly enlarged as is the case when the disease attacks turkeys. Chickens affected with blackhead become droopy. A sulfur-colored diarrhea is also a sign of trouble.

New drugs for the treatment of blackhead are now on the market and can be obtained from your veterinarian or poultry-service man.

Typhoid

Although typhoid is often confused with fowl cholera, it is an entirely separate disease, caused by a different kind of bacterium (*Salmonella gallinarum*). The typhoid liver and spleen are enlarged and reddish or greenish in color. Typhoid causes a high fever and can kill a large portion of the flock. This disease is more difficult to control than cholera.

While not entirely satisfactory, certain of the sulfa drugs are our best treatment for typhoid. Most of the treatments for cholera (sulfamethazine and sulfaquinoxaline) help some against typhoid, although some flocks don't seem to respond to these drugs. Use the same dosage and time schedule recommended for cholera.

Typhoid is a disease which should be prevented if at all possible. This means sanitation measures should be taken to

[*Turn to page 172*

Don't Let Hog Cholera Ruin Your Profits—Use

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Happen to a hen

[*From page 171*]

prevent the spread of the disease. Do not take hens from farm to farm without a quarantine period. Screen buildings against sparrows. Do not mix old birds with young ones. A drinking-water disinfectant will help keep the water from spreading the disease.

Typhoid causes a reaction to the pullorum test and this can be used to help diagnose the disease. The test can be made on a glass plate using pullorum antigen which can be obtained from any hatchery or drugstore. A few days after typhoid affects a bird, the body builds antibodies against the typhoid organisms which are detected by the test. Should the percent of reactors be high, typhoid should be suspected.

Blue comb

This disease is also known as pullet disease. Blue comb is hard to distinguish from cholera and typhoid, and often attacks along with one of them. When this disease strikes, digestion stops, the gizzard contents become rotten, and the kidneys are congested with urates (see drawing). Fluids do not pass normally from the kidney to carry away the urates. Thus the solids are held in the kidney and cause the congested condition. This gives the kidneys a grayish-tan appearance and a grainy texture. The gall bladder also becomes enlarged. The flock drops rapidly in production and appears droopy.

Molasses can be used to help control blue comb. The usual rate is 1 pint of molasses to each 4 gallons of water. This may be continued for several days. The flock usually makes a surprisingly rapid recovery. If blue comb is present along with cholera or typhoid, the sulfa drug and molasses can be used together.

Tuberculosis

Another disease which affects the liver and spleen is tuberculosis. This disease causes an enlarged liver, with yellowish nodules extending above the surface, as shown in drawing. Birds with an acute case slowly become emaciated (dry up) and die. This slow development is characteristic; hence it is usually found only in older birds.

You can help control tuberculosis by selling all year-old hens each fall and keeping an all-pullet flock. Chickens can spread tuberculosis to hogs and can get it back again from the hogs the following year. Separation from hogs is important. Any affected hens should be destroyed. It usually attacks only a few hens at a time. There is no treatment.

Leukosis

Here is a disease which has seemingly become a "catchall" name for most tumors and enlarged organs. As now diagnosed in many laboratories, livers which appear as shown on page 47 are generally called leukosis by the laboratories. This disease ranks as the No. 1 troublemaker all over the country. Many men are studying leukosis and have reported their findings.

High-production birds on a poor diet and suffering from other diseases are more subject to leukosis trouble. Birds raised in isolation on good green range, with good nutrition and without crowding, seem to develop the greatest resistance. Poultry breeders are developing

resistant stock, and this phase of the program, along with good management, good nutrition, and control of chronic diseases, will go a long way toward a control of leukosis. There is no treatment for leukosis. However, the treatments for P.V.I. and coccidiosis (see following) will often indirectly help control leukosis.

Mycosis

This disease attacks the gizzard and other parts of the digestive tract from one end to the other. It is caused by a mold growing on the surface of the digestive-tract lining, causing the lining to crack and slough off. Note the pitted areas, discoloration, and loose "skin" in the drawing on page 47.

Copper sulfate is often used as a treatment for mycosis. One pound of copper sulfate in 3½ quarts of soft water, with a cupful of vinegar added, makes a gallon of stock solution. This is used at the rate of 1 tablespoonful to each gallon of drinking water for 3 days. Repeat the dosage in 10 days. Other drinking-water disinfectants, containing quaternary-ammonium compounds, may also be used. Damp litter leads to mycosis trouble.

Pullorum

Here is one of the big killers of baby chicks. Pullorum affects baby chicks much like blood poisoning. Survivors may later develop a chronic infection causing a diseased ovary with dark, irregular-shaped, absorbent egg yolks (see drawing). These birds cannot lay as many eggs as normal birds. Most progressive hatcheries blood-test their hatching stock to prevent this condition from developing in the chicks they sell. However, it is possible to pick up the disease from chronic carriers.

Should pullorum strike a flock of baby chicks, one of the following sulfa drugs can be used to combat it: sulfamethazine, sulfadiazine, or sulfamerazine. Follow the label directions for treatment.

Intestinal coccidiosis

This type of coccidiosis is caused by one of the eight varieties of coccidia which attack chickens. The small intestines become swollen and thickened and have reddish areas with small, light spots filled with thousands of coccidia (recognized only when viewed with a microscope). Intestinal coccidiosis is most likely to occur in the upper part of the small intestines. The intestinal type of coccidiosis may continue until the bird is finally weakened and killed.

Cecal coccidiosis

Another type of coccidia attacks the ceca, causing cecal coccidiosis. This type of coccidiosis causes an acute infection and bleeding into the ceca, and kills many birds in a few days. Birds which recover from an attack of this type of coccidiosis have a lasting immunity against further outbreaks. However, they remain susceptible to intestinal types.

Both types of coccidiosis mentioned are controlled quickly by the new drugs. Sulfamethazine and sulfaquinoxaline products are most widely used. Use sulfamethazine for 2 days, skip 4 days, then use 1 more day. If necessary, another day of treatment may be used. Sulfaquinoxaline products are used 2 to 3 days, skipped 3 days, then used 2 days. Both are used at the rate of 1 ounce per gallon of water.

Arsenical preparations have also proved helpful in controlling coccidiosis.

[*Turn to page 174*

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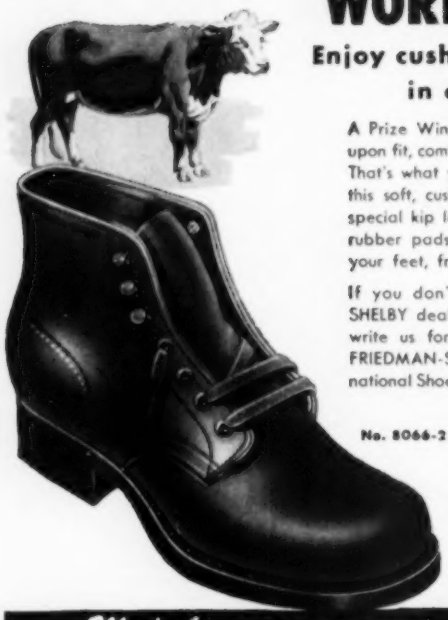

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ABSORBINE JR.

Happen to a hen

[*From page 173*]

These arsenical preparations are usually used as a heavy dosage for 8 days, then at a "tonic" rate. All of these products mentioned have good label directions.

Entero-proventriculitis

The last disease we shall cover is entero-proventriculitis (informally abbreviated P.V.I.). For years research men, veterinarians, and poultry diagnosticians have largely passed over this complex and serious disease. It is a disease which sends millions of chickens skidding "downhill" to weakness and death. This disease is not dramatic like coccidiosis or cholera, but wears away at the proventriculus, gizzard, and intestines (see drawings, page 47). Digestion becomes poor and the chickens get thin and weak. If the bird doesn't die from P.V.I., it is so weakened that it may succumb to other diseases.

Just what does P.V.I. do to the flock? Birds affected with the disease become weakened, have a diarrhea, and become thin. This can happen at any age. Opening the birds and carefully examining the internal organs (see method for post-mortem, page 128 in this issue) will show that the proventriculus is swollen and the intestines are inflamed. The liver and kidneys are sometimes swollen. The ceca appear puffed up and contain a yellow foamy material.

Chronic cases may not show all of the above changes in appearance, but will have some of them. When opened, the proventriculus in an acute case will appear reddish and swollen. Squeezing the glands will release a yellowish material. The intestine has red, inflamed areas.

These damaged organs cannot digest feed properly. This leads to a condition similar to that caused by poor feeding, even though the flock's feed is adequate. Other diseases, such as mycosis and chronic coccidiosis, can cause a similar condition.

Treatments for P.V.I. have been made for years by most poultry-medicine companies. They have used copper sulfate as an ingredient of their "tonics" or "conditioners," and this seems to be the ingredient which helps most. When mixing with water, use 1 pound of copper sulfate (blue vitriol) in $3\frac{1}{2}$ quarts of water. Then add enough vinegar to make 1 full gallon. Shake until dissolved. Add 1 tablespoonful of this stock solution to each gallon of poultry drinking water. A single, 3-day treatment will help slow down the infection. Repeat this 3-day treatment 3 times each month.

Copper sulfate also may be used in feed if an all-mash feed is fed. Thoroughly mix 3 pounds of very finely powdered copper sulfate to each ton of feed ($\frac{1}{2}$ pound to 333 pounds of feed). No other feed should be fed during the treatment period.

Modern "miracle" drugs have been a big aid in our fight against poultry diseases, many of which can now be effectively controlled. Pictures on page 128 show how to post a chicken. Follow these steps. Then compare what you find with the colored pictures. When in doubt, see a veterinarian or poultry-service man.

Reprints of "What Can Happen to a Hen" are available in quantities of 50 or more at $3 per hundred. Address requests to Successful Farming, *2201 Meredith Building, Des Moines 3, Iowa.* **END**

"No mud on *our* Pulpit!

"*No . . . not in* our *little church!*

"But something the Pastor said reminded me of a service I'll never forget. Later, Helen told me I'd said '*Mud!*' out loud. That's why she dug me in the ribs and said '*John, wake up!*'

"I guess I *was* wool-gathering. I was back overseas, listening to a Chaplain who'd found a spot of beauty in a grove of trees for his services . . . right smack in the middle of a war! The green branches made a church-like arch. The sun filtered through the branches like through our church windows.

"The Chaplain's pulpit? Just the hood of a homely Army Jeep . . . *splattered with mud.* No organ music . . . just the booming of big guns far off. No pews, either . . . just mud to sit in. But I felt just as close to God then as I did last Sunday in our Maple Street Church.

"After Helen nudged me awake, I thought of countries where mud *is* slung at pulpits. Where men of the cloth are jailed. Where churches are closed or burned. And where God is disowned. I gave thanks that *here* we respect *all* churches.

"Freedom of worship is *one* of our precious rights. Other Freedoms include our right to vote as we please . . . and without anyone knowing *whom* we vote for. To get rip-roaring mad when we see our taxes wasted by wild spending . . . and when we read about charges of corruption against public officials. To choose our own jobs, like I did when I applied for one at Republic. To own our own homes. To drive our own car across state lines with nobody to push a gate down in our faces.

"I said an *extra* prayer last Sunday: *May our Reverend Johnsons, Father Kellys and Rabbi Cohens always have that sacred Freedom to preach their gospel from unmuddied pulpits. Amen.*"

REPUBLIC STEEL

Republic Building • Cleveland 1, Ohio

Republic BECAME strong in a strong and free America. Republic can REMAIN strong only in an America that remains strong and free . . . with an Agricultural industry equalled by no other nation. *And through Agriculture, Republic serves America.* The practical application of Republic steels to the solution of farm problems has always been one of Republic's major activities. It helps to make possible the dependable service that farmers are getting from their tools, tractors and other implements in these days of bigger and better crops to feed a bigger and better America.

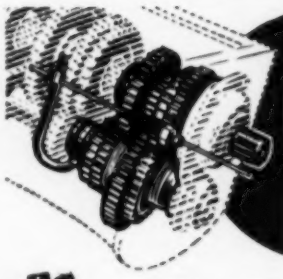
* * *

For a full color reprint of this advertisement, write Dept. C, Republic Steel, Cleveland 1, Ohio

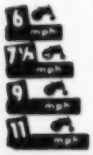
Honest, I'm not much trouble . . .

He isn't, either, if you have sure, safe Sergeant's Dog Care Products to help keep him healthy and happy. There's one for practically every need. Worms, for example, clear out quickly and surely with SURE-SHOT (for big dogs) and Puppy Capsules (for small dogs). Other products for fleas, insufficient vitamins, skin irritation, ear ailments. All veterinarian-certified. Relied on by dog owners for 77 years. **FREE:** Your dog care problems are answered by authorities in Sergeant's Dog Book. At drug or pet store —or write Sergeant's, Dept. K-5, Richmond 20, Virginia.

Sergeant's® dog care products



4 More Field Speeds FOR YOUR FARMALL



What This Will Mean to You

Thousands of M and W 9-speed transmissions on Farmalls all over America get field jobs done days ahead. This fuel-saving transmission gives you field speeds right where they're needed, between 4th gear and 11 mph. Cuts tractor operating costs ⅓. Does not interfere with mounted implements. Forced lubrication to the pilot bearing eliminates 75% of transmission repairs. Guaranteed unconditionally. Models for any Farmall H, M or MD.

5 More H. P. for M's

"ADD-POWER" PISTONS

Make your Farmall M the most powerful row-crop tractor in the field! Plow in the next higher gear—easily! Engines run smooth without shifting gears in the tough spots. ADD-POWER aluminum pistons with 4" bore come in individually matched and marked sets with chrome compression rings for longer life. Sizes for any Farmall M or H. Send postcard today for free folders and name of nearest dealer.

M and W POWERED TO DO MORE WORK ON LESS FUEL

M & W GEAR CO. DEPT. 8-H ANCHOR ILLINOIS

M AND W

The PLAY

Where Playfellows

The Owl Who Tired of Saying "Who"

Ollie was a big, brown owl with yellow eyes. He lived in an old hollow tree. One of the spreading tree roots made a comfortable resting place for people passing through the woods. Many people stopped to rest there, and when Ollie called, "Whoooo?" they looked up, laughed, and told him who they were.

One afternoon when Ollie was lazily talking to himself, he said, "I'm tired of saying nothing but 'who' all year long. Today I think I shall say nothing but '*why*.'"

A little girl on her way home from the village stopped to rest under the big tree. She was carrying fringed paper hats for her birthday party.

She counted the hats when she sat down. "Seven. That makes one extra hat," she said. "I won't invite Mary to my party."

"Why?" hooted Ollie.

The little girl looked up, surprised to hear an owl ask, "Why?" "Because Mary is so cross to me," she answered.

"Why?" repeated Ollie without a blink.

The child hung her head. "Maybe it's because I tease her. Do you think so?" And she suddenly changed her mind. "I think I shall invite her after all." With that, she jumped up and ran home.

A cross-looking little boy came along the path. He carried a bundle of clothing on a stick over his shoulder. A brown dog ran by his side.

"I'm running away from home for good. I'm never going back," he told the dog.

"Why?" called our friend the tree owl.

Frightened by the noise, the little boy looked up at Ollie. "Because my folks won't let me do what I want to do," he pouted.

HOUSE

meet every month

"Why?" repeated the owl.

The boy wrinkled his forehead as he thought. "Because—I guess I always want to do the wrong thing," and he began to cry. But in a moment, a smile came across his face and he ran quickly home.

After a few minutes Farmer Gray came past the old tree. The old man took off his hat and sat down on the soft grass.

"Well, now that I have sold my land, I shall put all that money in my strongbox. I won't give a penny for the new playground," he said.

"Why?" came the tree owl's voice.

The farmer scowled and looked up. "Because nobody ever did anything for me."

"Why?" repeated Ollie.

Farmer Gray did not answer for a long time. "Because I never did anything for anyone else, I guess."

Then he got up from his tree rest and walked thoughtfully away toward home.

Ollie just yawned and settled back in his tree home. From across the field he heard his friend Otis Owl calling to him, "Whoooooooo?"

Ollie hooted back, "Whyyyyyyyy?"

He was a changed owl. From that day on, the villagers all stopped to rest at the old tree so they could talk to Ollie, the wisest owl they ever knew.

Farm Puzzle. Use the following letters in the big square to find the right answer to the seven questions. All the words are the names of things or of conditions existing on farms.

B B B — C C — E E E E E — H H — I I I — L — M — N N — O O O O O O — P — R R R R — S S S S S — T T T T T — U — V

1	E						
2		E					
3			E				
4				E			
5					E		
6						E	
7							E

Definitions:

1. A serious soil problem
2. A vegetable
3. Where honey is made
4. A kind of bird (plural)
5. Bird dogs
6. A fowl
7. Modern harvesting machine

Answers: 1. Erosion; 2. Lettuce; 3. Beehive; 4. Phoebes; 5. Setters; 6. Rooster; 7. Combine.

Turn to page 178

Completely new—softened twice!

LOOK FOR IT IN THE NEW WRAPPER!

If you've been paying a premium price for soft toilet tissue—this is for you!

The makers of that fluffy-soft, snow-white Northern Tissue proudly announce the NEW NORTHERN TISSUE, a marvelously gentle tissue that actually goes through *two* extra refining steps.

The result is—the softest Northern ever! The NEW NORTHERN TISSUE comes to you at the usual thrifty Northern price. Look for it today!

Softened twice—thrifty price

© 1952 Northern Paper Mills

Enjoy better farm living . . .

. . . by letting *Successful Farming* continue to help you solve all your farm problems.

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 201. Visit store nearest you for help with decorating problems.

MAKE FARM PAINTING EASY

FREE BOOK TELLS HOW to get better paint results at no extra cost. Given free by America's leading aluminum producer so you can get full value and satisfaction from aluminum paint. Written by experts, packed with facts. Write for, "Paint it Bright."

ALUMINUM COMPANY OF AMERICA • 1715D Gulf Bldg., Pittsburgh 19, Pa.

QUICKLY REPAIRS Chipped PORCELAIN

NO BAKING required . . . anyone can repair Stoves, Refrigerators, Sinks, Tubs, etc. Home-Size (up to 3 repairs) 50c; Economy size $1.50 prepaid. (No C.O.D.'s).

PORCELENE

If not at your dept., paint, hdwe. store...order direct.

©PORCELENE, INC.
Dept. S Sheboygan, Wis.

ONLY IN "U.S."

Soles of Tough, Tempered Rubber

Tough as tires . . . here's more mileage! More comfort, too, in the Rocker Lasts. Multi-plies reinforce strain points. Buckles are bonded in for the life of arctics and rubbers.

U. S. ROYAL MASTER RED BOOTS, SMOOTH FINISH, OR U. S. ROYAL BLACK BOOTS, PIGSKIN FINISH.

UNITED STATES RUBBER COMPANY
ROCKEFELLER CENTER • NEW YORK

The playhouse

[*From page 177*]

Found in Easter. How many words can you make up from the letters contained in *Easter?* You can use a letter in any word only as often as it occurs in *Easter* itself.

1. A flower — — — — —
2. Repose — — — —
3. Comfort — — — —
4. Food — — — —
5. A heavenly body — — — —
6. A Biblical weed — — — —
7. The Orient — — — —
8. A place to sit — — — —
9. A beverage — — —
10. Beautiful workmanship — — —
11. To gaze — — — — —
12. The ocean — — —
13. A bovine animal — — — — —
14. To bother playfully — — — — —
15. A spike of corn — — —

Answers: 1. Aster; 2. Rest; 3. Ease; 4. Eats; 5. Star; 6. Tare; 7. East; 8. Seat; 9. Tea; 10. Ate; 11. Stare; 12. Sea; 13. Steer; 14. Tease; 15. Ear.

Ten Willing Workers. Here's a way to figure out your finger ability. Arrange the letters to form words that tell things your fingers can do.

1. Vome
2. Llup
3. Cande
4. Husp
5. Pety
6. Palc
7. Chout
8. Lefe
9. Dolh
10. Mooths
11. Bur
12. Crathes
13. Murd
14. Pat
15. Apt
16. Esicxree
17. Tonip
18. Denb
19. Palse
20. Zqueese

Answers: 1. Move; 2. Pull; 3. Dance; 4. Push; 5. Type; 6. Clap; 7. Touch; 8. Feel; 9. Hold; 10. Smooth; 11. Rub; 12. Scratch; 13. Drum; 14. Tap; 15. Pat; 16. Exercise; 17. Point; 18. Bend; 19. Clasp; 20. Squeeze.

Name the Birds. Answer each of these questions with the name of a bird and see what a nice flock you have. All of the names should be familiar to you.

Which bird's name means . . .

1. To boast?
2. To peddle?
3. A low singing?
4. Stealing?
5. A lifting device?
6. To fear?
7. A pleasure trip?
8. To eat?
9. A singer?
10. To dodge or dive?

Answers: 1. Crow; 2. Hawk; 3. Humningbird; 4. Robin; 5. Crane; 6. Quail; 7. Lark; 8. Swallow; 9. Warbler; 10. Duck.

Hey Riddle-Diddle

What boy or girl doesn't like to solve a puzzle? See how many of these you know.

1. What has a mouth and a fork, but never eats? *A river.*
2. Why does an engine do what it is told? *Because it is afraid of the switches.*
3. What always keeps an eye open, but never sees anything? *A needle.*
4. If all the seas dried up, what would Neptune say? *I haven't an-ocean.*

Self-feeds corn from granary

There's no scooping of corn for hogs on the Marion Peterson farm, Andrew County, Missouri. It's fed directly from the granary through a self-feeder built at the base of the granary (see picture below). Corn is shelled when stored, eliminating any later corncob problem.

Peterson built the self-feeder for about one-tenth the cost of a commercial self-feeder of the same size. Native lumber was used. When full, the feeder holds about 1,500 bushels of shelled corn. A separate compartment near the middle of the feeder holds ½ ton of protein supplement. This compartment is filled through a hole above the feeder (see picture).

Most of the corn feeds into the giant self-feeder by gravity. However, when the corn gets low, a board, slanted to the outlet of the feeder, is used to feed out the rest of the crib.

The feeder is weather-protected by a shed built on the side of the granary. The shed is open to the south, making an ideal place for hogs to eat—it's cool in summer and warm in winter.

Group mailbox

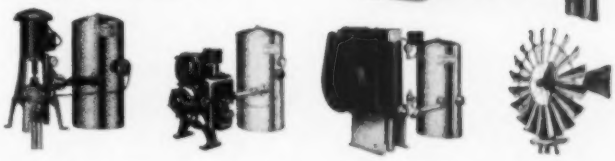
A community mailbox built near Grangeville, Idaho, saves the carrier time. There's plenty of room "downstairs" for parcels, even at Christmas time. On one corner of the box is a signboard stating the number of miles to each farm and how to get there.

AERMOTOR...The Familiar Name that means *Running Water* to Farmers Announces a

New CONVERTIBLE JET PUMP Water System

Big in Power . . . Performance . . . Economy

You use the same pump unit, tank, and tank fittings. Your dealer has parts, factory-packaged, for adapting it to either shallow or deep wells. If, for any reason, you wish to change from shallow to deep well operation, you can do it, or your dealer can do it for you. All parts of the Aermotor Convertible Jet Pump are easily accessible for low-cost maintenance. It's built for long life. NEMA standard ball-bearing motor, 3450 rpm with built-in thermal overload switch to prevent overheating.



VERTICAL JET PUMPS
For 2", 3", and 4" wells or larger, with motors ranging from ⅓ to 1 hp.

SHALLOW WELL PUMP
For suction lift of 22 feet or less. ¼, ½, & ½ hp motors for capacities of 250, 350, and 500 gph.

DEEP WELL PUMP
For pumping depths 20 to 750 feet. Available in 4 sizes with ¼ to 3 hp motors. Capacities of 118 to 4950 gph.

AERMOTORS
Wheels 6 feet to 20 feet in diameter. Capacities from 105 to 3300 gph.

SEE THEM AT YOUR DEALERS! Ready, now, for quick installation.

Look for the pumps painted Aermotor Maroon and bearing the Aermotor name on the tank. Compare them and buy the system that meets your requirements.

THE AERMOTOR CHICAGO

For latest literature and name of nearby dealer, write

AERMOTOR COMPANY

Dept. 3604, 2500 Roosevelt Road, Chicago 8, Illinois

Factory Branches: Amarillo • Dallas • Oakland • Kansas City • Omaha • Des Moines • Minneapolis

ONE-MAN SAWMILL LOW AS $50.00 DOWN

Take BELSAW Portable Sawmill right to the trees—turn out valuable lumber for local yards—do "custom sawing" for neighbors. BELSAW lasts a lifetime. No crew needed. Power with old auto engine. Beginners get excellent results. Send postcard for Free Book, 'How to Make Lumber.'

BELSAW MACHINERY CO
8187 Field Bldg.
315 Westport Rd., Kansas City 2, Mo.

TRACTOR CONCRETE MIXERS

IT'S FUN to do concrete work with a Frohring Redi-mixer! Transporting and mixing—all by tractor power. Load mixer anywhere, deliver ready-mixed concrete direct to your forms. No wheelbarrow needed. Models illustrated for Ford or Ferguson tractors, models available for YOUR tractor. Also new Universal model that will operate either from tractor PTO, electric motor or gasoline engine. Write for FREE information TODAY. PLEASE give make and model of your tractor.

R. L. FROHRING MACHINE CO. Box 1449, Chagrin Falls, Ohio

HELPFUL SUGGESTIONS for solving all types of farm problems are found in each issue of *Successful Farming*.

KOSCH SIDE MOUNTED MOWER

You've always wanted a Side Mounted Mower. Now it's here. With a Kosch, you see where you're going—see where you're mowing. Mount in a few minutes. Never before has mowing been so fast and easy. Kosch Mower has standard cutter bar and pitman, easily maintained with IH Parts. Thousands satisfied users. Learn why KOSCH MOWER is Best. Available for Farmall H, M, A, C, Super A and C, Reg. & F-20; John Deere A & B; Allis Chalmers WC & WD; Ford, Ford-Ferguson, Fergusons, and other tractors. Get all the facts. Specify make and model. Write for FREE literature today.

KOSCH MFG. CO. Dept. 9 Columbus, Nebr.

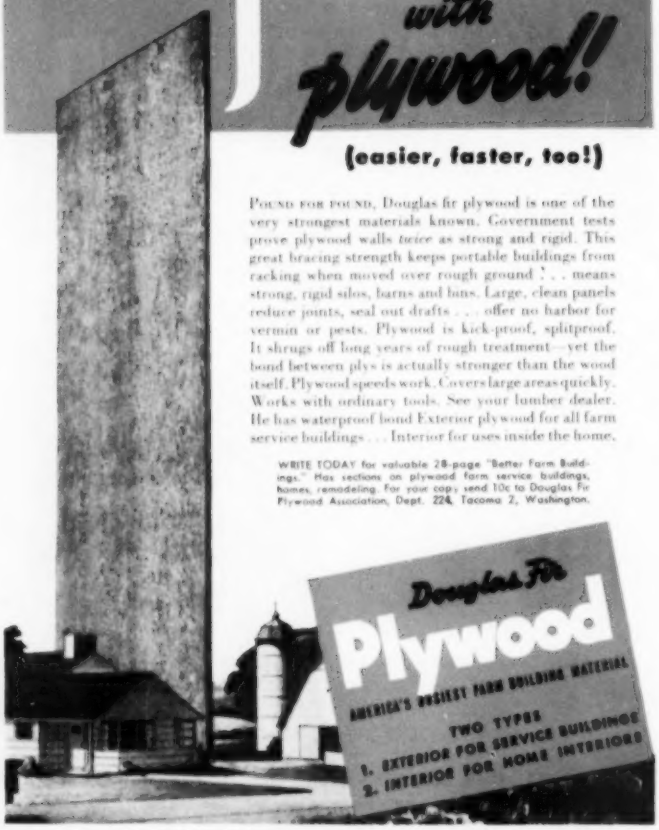
On the Farmstead,
In the Home,
For New Construction,
Remodeling or Repair

You'll build stronger with plywood!

(easier, faster, too!)

POUND FOR POUND, Douglas fir plywood is one of the very strongest materials known. Government tests prove plywood walls *twice* as strong and rigid. This great bracing strength keeps portable buildings from racking when moved over rough ground . . . means strong, rigid silos, barns and bins. Large, clean panels reduce joints, seal out drafts . . . offer no harbor for vermin or pests. Plywood is kick-proof, splitproof. It shrugs off long years of rough treatment—yet the bond between plys is actually stronger than the wood itself. Plywood speeds work. Covers large areas quickly. Works with ordinary tools. See your lumber dealer. He has waterproof bond Exterior plywood for all farm service buildings . . . Interior for uses inside the home.

WRITE TODAY for valuable 28-page "Better Farm Buildings." Has sections on plywood farm service buildings, homes, remodeling. For your copy send 10c to Douglas Fir Plywood Association, Dept. 224, Tacoma 2, Washington.



Recommended By Many Leading
BABY DOCTORS
to relieve distress of
CHEST COLDS
And Break Up Painful Localized Congestion

A number of baby doctors today are recommending Child's *Mild* Musterole to promptly relieve coughs, sore throat, localized inflammation and to break up congestion in nose, throat and upper bronchial tubes of the lungs. Just rub it on!

Musterole instantly creates a wonderful sensation of *protective warmth* on chest, throat and back and brings amazing relief. There's also Regular and Extra Strong Musterole for adults.

Child's Mild
MUSTEROLE

TOMBSTONES...
FREIGHT PAID
GENUINE MARBLE and GRANITE
Satisfaction Guaranteed. Prices include lettering and Foot-stone. Catalog FREE.
ALLSTATES MONUMENT CO.
Box 117, Station F, Atlanta, Georgia
$15.00 UP

Successful Farming's *practical, up-to-the-minute information will help you and your family enjoy better farm living.*

In-a-pinch meals

[*From page 44*]

Fruit-glazed Luncheon Meat
Serves 6 to 8

Score . . . . **4 12-ounce cans luncheon meat**
Spread with **¾ cup orange marmalade**
Stud with **whole cloves**
Garnish with **orange segments**
Bake at 400° for 15 minutes, basting occasionally.
Garnish meat platter with:
pickled apples
parsley
Glazed Squash

Glazed Squash
Serves 6

Cut . . . . . **2 acorn squash** in rings
Remove seeds.
Arrange in 2-quart casserole.
Season with **salt** and **pepper**.
Cover and bake at 350° for 40 minutes, or until tender.
Cream . . **½ cup butter**
1½ cups brown sugar
Remove squash from oven.
Spread with sugar mixture.
Bake at 400° for 15 minutes more.
Arrange around meat platter.

Corn Scramble
Serves 6

Heat together:
2 No. 2 cans whole kernel corn
4 tablespoons chopped green pepper
4 tablespoons chopped pimiento
Drain.
Add . . . . . **butter, salt,** and **pepper** to taste.

Lemon Meringue Pie
Makes one 8-inch pie

Follow directions on
1 package piecrust mix for making pastry dough, but use only half of the ingredients in package.
Roll out to fit 8-inch piepan.
Prick and bake according to directions on package.
Prepare filling according to directions on **1 package lemon pie-filling mix**
Pour into cooled piecrust.
Beat . . . . **2 egg whites** to soft peaks
Add . . . . . **¼ cup sugar** gradually, beating until stiff peaks form.
Spread over pie filling.
Bake at 350° for 12 to 15 minutes, or until meringue is lightly browned.

Stuffed-apricot Salad

Pit . . . . . **canned, unpeeled, whole apricots**
Drain.
Combine **1 package cream cheese** and enough **apricot juice** to soften cheese slightly.
Stuff pitted apricots with cheese.
Top with **whole pecans**
Arrange 3 apricots on **lettuce** for each serving.
Serve with **mayonnaise,** if desired.

Cloverleaf Rolls

Follow directions on
1 package hot-roll mix
Make into cloverleaf forms.
Let rise and bake as directed.

Beef Stew With Parsley Dumplings

Serves 8

Heat . . . **2 1½-pound cans beef stew**
Combine **2 cups biscuit mix**
2 teaspoons chopped parsley
¾ cup milk
Mix thoroughly with a fork.
Drop dough by spoonfuls on hot stew.
Cook over low heat for 10 minutes.
Cover and cook 10 minutes more.
Liquid should just bubble gently.

Asparagus With Almond Butter

Serves 6

Drain . . . **2 No. 2 cans asparagus**
Cook liquid until reduced in quantity.
Add asparagus to hot liquid.
Simmer until heated through.
Top with **½ cup toasted, slivered almonds**
4 tablespoons melted butter.

Pineapple-Peach Salad

Arrange . . **pineapple ring** on **lettuce**
Place . . . . **peach half,** hollow side up, on pineapple ring
Fill peach half with a
fruit dressing
Garnish with
maraschino cherry.

Gingerbread With Whipped Cream

Serves 8

Follow directions on
1 package gingerbread mix
Pour into pan and bake as directed.
Top with **sweetened, whipped cream**
Garnish with **nuts.**

Corned-beef Hash Roll-up

Serves 6

Heat . . . . **No. 1 can corned-beef hash** in saucepan
Combine **3 cups biscuit mix**
1 cup milk to make dough
Knead 10 times on lightly floured board.
Roll dough out in 9x13-inch oblong.
Spread with hash and
2 tablespoons chopped pimiento
2 teaspoons chopped parsley
Roll up like jelly roll.
Bake on ungreased baking sheet at 425° for 20 minutes.
Heat . . . . **10½-ounce can cream of mushroom soup**
¼ cup milk
Serve hot soup over hash roll-ups.

Sweet-sour Green Beans

Serves 6

Drain . . . **2 No. 2 cans, or 5 cups, green beans**
Cook liquid until reduced in quantity.
Fry . . . . . **6 slices bacon,** diced
Add . . . . . **6 tablespoons sweet-pickle juice** and the bacon and beans to hot liquid
Simmer about 15 minutes to blend flavors.

[*Turn to page 182*

Visit the store where you see the red, white and blue *irha* Symbol of Service for your spring clean-up needs. Take lawn mowers, for example, your *irha* store has the best. Or garden hose, either rubber or plastic, *irha* means the best values. Wheelbarrows? the latest designs. For painting, look to the *irha* store for *all* your needs! Garden tools, from seeds to rakes and all your household necessities, such as stepladders, will be found in better selection and value where you find the *irha* Symbol of Service! . . . Be sure to visit your local hardware store during—

irha HARDWARE WEEK—APRIL 17th THRU 26th

© 1952, National Retail Hardware Association

NATIONAL AND AFFILIATED RETAIL HARDWARE ASSOCIATIONS

Gets consistently good results with handy Dry Yeast

Busy Mother is Winner of 244 Cooking Awards

Mrs. W. L. Van Peursem shows her teen-age daughter some of the premium tags she has won for her cooking prowess. Just last year at the Iowa State Fair she took 55 awards in cooking contests . . . and in her six years of exhibiting at the State Fair she has won a total of 244 cooking prizes!

Mrs. Van Peursem lives on a farm in Mitchellville, Iowa, where she keeps busy cooking for her hungry family. As a busy mother *and* a prize-winning cook, she swears by Fleischmann's Active Dry Yeast. "It always rises fast," she says, "and gives me consistently good results."

What could be more satisfying, more delicious than goodies made with yeast! They're so nourishing for your family, too. When you bake at home, use yeast. And use the best — Fleischmann's Active Dry Yeast. It's so easy to use . . . dissolves in a jiffy and rises *fast*. Get a supply today.

ROSES FOR MOTHER $1 Doz. ppd.

LIKE HER LOVE . . . THESE ROSES WILL LAST FOREVER! So life-like you'd think they're fresh-cut from the garden . . . so real-looking you won't believe they're hand-made! Gift packed in crush-proof box.

Thousands of re-orders and unsolicited praises. Your satisfaction guaranteed or money refunded. Choice of ROSES, DAFFODILS, DAISIES. Why not order all three? Send $1 for each dozen . . . cash . . . check . . . money order. (Postage Free if you remit.) ©-1952

FIRST AMERICAN-FLOWERS
Box 86 Dept. SF New York 29, N.Y.
Beautifying Millions of Homes since 1910

Keep *Successful Farming* coming your way. Each month in *Successful Farming*, you will find the kind of information that will help you increase your profits, make your farm work more convenient, and your farm living more comfortable.

UP TO $100 IN A MONTH JUST FOR WEARING AND SHOWING LOVELY DRESSES

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FASHION FROCKS, INC.,
Studio J-4022, Cincinnati 25, O.

In-a-pinch meals

[*From page 181*]

Buttered Whole Beets

Serves 6 to 8

Drain . . . **2 No. 2 cans, or 5 cups, whole beets**
Cook liquid until reduced in quantity.
Add beets to hot liquid.
Season with **salt** and **pepper** to taste.
Simmer until heated through.
Place in serving dish.
Dot with **butter.**

Chocolate-chip Cookies

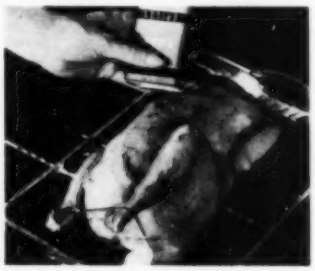
Follow directions on **box of cooky mix**
Add . . . **chocolate chips** as directed
Drop by spoonfuls on ungreased cooky sheet.
Bake at 375° for 15 minutes.

The following canned and packaged foods are handy items to have on your "emergency" or in-a-pinch-meals shelf. Most of them are available in grocery stores across the country.

Canned foods:	Packaged foods:
meat balls	cake mixes
wieners in sauce	gingerbread mix
sausages	muffin mixes
beef stew	popover mix
ravioli	hot-roll mix
chow mein	cooky mixes
chop suey	pancake mixes
corned-beef hash	piecrust mix
chili con carne	biscuit mix
creamed dried beef	brownie mix
roast-beef hash	fudge and frosting mix
beef and gravy	ice-cream mix
noodles and giblets	corn-bread mix
noodles and chicken	pudding mixes
macaroni with cheese	pie fillings
macaroni and tomatoes	apple
Spanish rice	blueberry
chicken fricassee	lemon
chicken a la king	dehydrated
ready-to-serve meats	soups
shoestring potatoes	

Tastier chicken

For a delicately spiced special-occasion bird, roast chicken as usual—uncovered and in a 325° to 350° (slow to moderate) oven. When roasting time is half over, sprinkle the bird lightly with grated nutmeg and finish roasting. So-o-o good!



Crocheted-hat style

Styled for casual wear with suits and coats, this crocheted beret is a breeze to make and a comfort to wear. It changes three ways (as illustrated) or three dozen —depending upon your ingenuity! Made with double strands, the crown is crocheted in an easy puff stitch. The headband is knitted in ribbing and turned under for double thickness. Order by number, PC6626, from *Successful Farming*, 1504 Meredith Building, Des Moines 3, Iowa. Enclose 6 cents to cover mailing.

For short, short hair this is one of the best beret styles. The back hair is covered by the cap and front hair curls around it

True beret style with the side slant that is so fashionable this spring. It should be worn on the side opposite the hair part

Forward with a bonnet tilt is a good longer-hair fashion. Brim can be made by shaping the beret with fingers and pressing

How to
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your kitchen for pennies!

New! New! New Color is yours now—a colorful "new" kitchen—simply by color-glorifying all shelves with wonderful "Plasti-Chrome" Royledge. Gorgeous patterns stay bright and clean with new "plasti-chrome" finish. Yet new Royledge costs only about a penny a foot. Choose sparkling designs now at 5 & 10's, Supermarkets, Housefurnishing, Naborhood, Dept. Stores.

Shelf Lining Paper & Edging all-in-one. 9 ft. & 24 ft. pkgs.

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Royledge
for WOOD and METAL shelves

STARTING APRIL 25, see Royledge Carnival of New Spring Patterns at local stores

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. . . by letting *Successful Farming* continue to help you solve all your farm problems.

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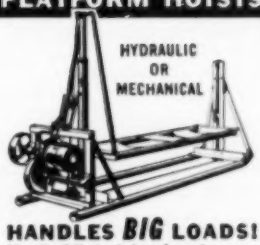

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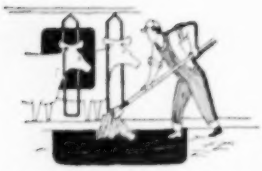
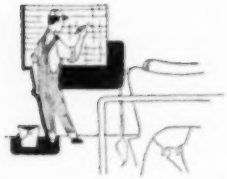


Feed good-quality roughages

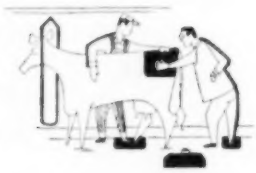
Have cows bred during heat period



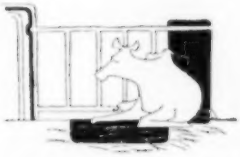
Keep breeding records for each cow

Tips to improve dairy-cow fertility

Mark stanchions of cows to be bred



Have nonbreeders examined



Provide comfortable maternity stalls

By George W. Trimberger

Replacements in your dairy herd are always a problem. You have to have them—there's no doubt about that. But how you get them is another matter. Of course, the easiest way is to raise them yourself. Then you know what you're getting. Usually, it's an advantage to raise your own replacements instead of buying them, but either way, breeding problems are bound to occur.

Abnormal breeding of dairy cattle isn't a new problem by any means. But we've learned much about it in recent years. Here are some of the points to keep in mind for a successful dairy-breeding program. We'll go into detail on some of the troubles later in this article.

1. Keep records of freshening dates, heat dates, service dates, and other observations.

2. Turn open cows out twice daily, and observe carefully for heat periods, especially 18 to 23 days after the previous period.

3. Cows should not be bred until they have been fresh at least 60 days. One or two "free" heat periods without service during the first 60 days after freshening are very helpful to get the cow's reproductive organs in good condition for conception.

4. If a cow has had trouble in calving, has retained the placenta, or showed abnormal discharge after calving, have her examined and treated by a veterinarian until her genital organs are normal before breeding. Delayed breeding often is advisable for such cows.

5. If a cow does not show heat within 80 days after calving, have her examined promptly by a veterinarian.

6. Provide veterinary treatment promptly for cows that have cystic ovaries, as indicated by too-frequent heat periods.

7. Provide service at the best time for conception. Avoid service during the first 6 hours of heat. Cows first observed in heat in the morning must be bred the same day for good results. If bred the next day, results may drop as low as 30 percent for conception from the first service. Cows first observed in heat in the afternoon—and which definitely were not in heat in the morning—should be bred the next forenoon.

8. If a cow doesn't conceive from the first 3 services, don't breed her again until a veterinarian has examined her.

9. Breed females to a normal, potent sire when they are normal, healthy, and ready to be bred.

10. Heifers usually are more difficult to get with calf than are older cows. For both artificial and natural service, it often is necessary to breed a heifer to a young potent sire or an older bull of exceptional fertility.

11. Heifers should get large amounts of high-quality roughage and be raised in a proper environment so they are healthy and hardy.

12. Dry cows off 60 days before calving.

13. Have cows in good physical condition at calving time.

14. Provide a clean, comfortable maternity stall for calving.

The points we've mentioned will go a long way toward heading off breeding problems. Now for some of the reasons behind poor breeding.

Failure to detect heat in cows ready to breed is the dairyman's Number 1 reproduction problem today. Obviously, cows cannot be bred successfully if heat periods are not observed. Cows not served because of nonobservance of heat periods are just as numerous in total numbers as are cows that are bred but do not conceive. The latter is the dairyman's Number 2 reproduction problem.

A list of the cows expected in heat on a certain day, or period of several days, aids in finding the cows in heat. Also, you must observe the group of [*Turn to page 186*

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Yet mild new Dreft leaves your hands soft and lovely. Get Dreft today.

Saves work... Saves money

Dairy-cow fertility

[*From page 184*]

open cows for heat at least twice daily. A system started in the large herd at Cornell University last year works well.

A small piece of red paper was tacked up above all cows that were ready to breed or had been bred but were not safe with calf. These cows were turned out twice daily; first, early in the morning, and second, later in the afternoon. Those cows safely with calf were turned out once daily at a convenient time, usually when the other group was turned out in the afternoon.

A "chronic buller" is the name given to a dairy cow that shows continuous or excessive heat periods. At one time, the actions of such cows were unexplainable. Today, the cause and treatment are definitely known, and when treated properly at an early date, most cases give a satisfactory response.

Too-frequent heat periods are invariably due to cystic ovaries. As the name implies, a cyst develops and grows

> **The difference between perseverance and obstinacy is that one comes from a strong will and the other from a strong won't.**
> —*Henry Ward Beecher*

on the ovary. The cyst resembles a water blister. Size varies from smaller than a dime to larger than an egg.

Cystic ovaries can be easily detected by a veterinarian. Not all cystic ovaries cause trouble or reproductive disturbance of the normal heat period. It is only when they cause irregular heat periods and excessive sexual desire that they need immediate attention.

As with most reproductive difficulties, the prompt treatment of cystic ovaries—if they are causing trouble—is the key to successful recovery.

Cows with cystic ovaries may become as noisy as a bull and develop coarse features, even to the extent of developing a crest. The butterfat test of the milk is likely to be abnormally high in such cases. In many instances, milk production may also be stimulated and exceptionally high.

Another specific symptom of the disease in the advanced stage is the characteristic high tailhead and recession of the pinbones. Most breeders are familiar with this feature of cystic ovaries. However, if prompt veterinary treatment is given at the right time, cystic-ovary trouble usually clears up.

If a female has a total of 3 extra heat periods that are not on schedule during a 6-week period, the cystic ovaries present should be treated promptly.

Dr. M. G. Fincher, of the New York State Veterinary College at Cornell, has had good response from early treatment of cystic ovaries in the Cornell herd. The cysts are removed manually through the intestinal wall per rectum and the cows are given a hormone injection.

These hormone injections are helpful because of the improper hormonal balance caused by cystic ovaries. Too much FSH (follicle-stimulating hormone) and not enough LH (Luteinizing hormone) is present. The first develops the follicle and the latter ruptures it. When a veter-

inarian injects the proper dosage, the balance between the two is restored.

After treatment, service can be allowed when the cysts do not reappear and the heat periods are normal. The veterinarian can determine if the cysts are gone by a follow-up examination.

The *lack* of heat periods usually is due to one of four conditions: (1) nonfunctional ovaries; (2) pregnancy from a service not observed or not recorded; (3) functional ovaries going through the regular cycle but without external expression or sexual excitement; (4) persistent or retained corpus luteum.

The latter two are most common and are about equal in occurence. A good veterinarian can determine which one of these situations prevails. Before any treatment is started, the veterinarian should always determine definitely that the cow is not pregnant.

Too often the ovaries apparently function normally except that no external sexual excitement is indicated. However, such cows have been bred at Cornell and at the University of Wisconsin—with a good rate of conception resulting. The service is timed with the developing follicle, which is determined by palpation per rectum through the animal's intestinal wall.

The cows in this group will, as a rule, sooner or later have a normal heat period when they can be bred successfully. Another help is to have the veterinarian remove the corpus luteum, or yellow body, when it is at its full development. This often results in a normal heat period because the hormone balance is changed. Hormone injections by a veterinarian are also helpful.

In addition to cows showing no signs of heat are those showing the external symptoms *only to a mild degree*. Such cows are difficult to detect in heat, so a close watch is extremely important.

The persistent, or the retained, corpus luteum is a condition where the corpus luteum, or yellow body, remains on the ovary after a heat period. It may remain on the ovary until removed by veterinary treatment. A veterinarian can correct this condition either by removing the corpus luteum manually through the intestinal wall per rectum or by giving hormone injections. The response to either is usually very good. A certain risk is involved, as removal of the corpus luteum sometimes causes excessive bleeding from the ovary.

Turn to page 188

SUCCESSFUL FARMING

"Did you want the little blue whirligigs around the big red flowers, Dear, or was it blue doohickies among the green flowers and red thingamajigs?"

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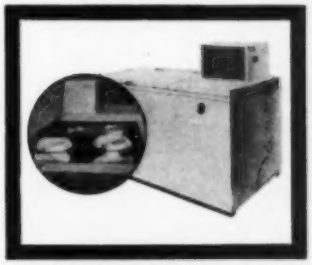
The De Laval Speedway "Immersion" type Coolers circulate 70-80 gallons of ice-cold water around the cans every minute.

Yes... moving water cools faster...more uniformly and at lower cost. See your local De Laval dealer for complete information on the wide range of sizes and models... or mail coupon today.



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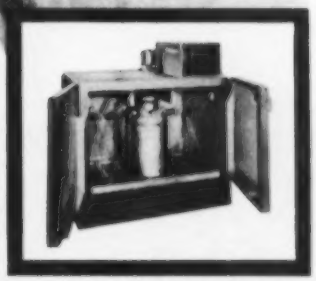

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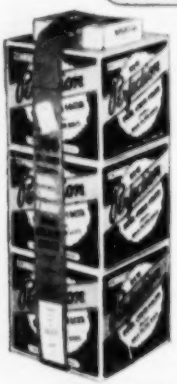

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America's Foremost Manufacturer of Sanitary Filtering Aids for Dairymen

Dairy-cow fertility

[*From page 187*]

The continued failure of a cow to conceive is also a problem. Keep in mind that the number of females in this group should not be too large for any particular herd. At least 80 percent, or 8 of 10 cows in a herd, should be pregnant from 3 services or less.

If the percentage is lower than this, necessary steps should be taken to correct the situation within the herd so as to obtain a higher breeding efficiency.

Inheritance plays a vital role in high fertility. Considerable evidence indicates that in fertility the sons of a sire resemble each other as well as their sire. Cystic ovaries are known to be transmitted occasionally through female lines by cow families. It is now known definitely that hormone activity is an inherited characteristic. Inheritance of low fertility should be considered in a well-planned breeding program.

If deficiencies appear to be hereditary in nature, it may be best to resort to culling in order to prevent such animals from propagating. Nonhereditary reproductive troubles are far more numerous than are hereditary ones. For this reason breeders should provide expert veterinary treatment for such troubles. **END**

Why you say it!

Women are accused of being more prone to gossip than men. But the history of the word indicates that the sexes are about equally guilty.

Though the practice of talking about one another is probably as old as speech itself, Anglo-Saxon customs produced the modern term. The Saxons spoke of any relative as a *sibb;* hence, a sponsor in baptism was known as a *God-sibb* of the infant. Slurred over in popular speech, the expression became *gossip*.

Elaborate ceremonies of the times made it necessary for godparents, or gossips, to meet several times before and after a baptismal service. It was natural that such gatherings should be clearinghouses for community news. As a result, the term "gossip" came to be attached to all newsmongers and idle talkers.—*Boyd G. Wood.*

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The Dearborn Heavy Duty Side Delivery Rake makes fluffy windrows, easy to pick up with loader, baler or chopper. Gentle action due to its raking angle and floating ground driven reel pushes, instead of whips, hay into uniform windrows—thus reduces leaf shattering or seed loss. Rich leaves and blossoms are tucked snugly inside the windrow; inverting action exposes stems for fast curing cooperation from sun and wind. The 1000-pound Dearborn Side Delivery Rake has 8-foot raking width; is built for extra years of service.

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Ford Farming MEANS BETTER WORK . . . MORE PRODUCTION

An old table remade

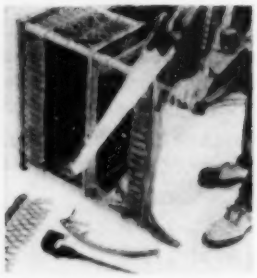
By Ann and Bob Joselyn

If you have a cast-off "pride of the Twenties," a wicker-and-cane library table, here is an idea which may appeal to you. Bring it down from the attic—as we did ours—and give it new life. Wicker and cane are being used today in smart, new furniture. And, it's a simple matter to transform an old relic, as shown at left, into a large, handsome coffee table for your living room.

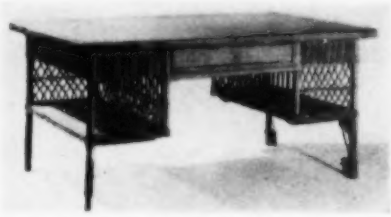
Simply cut down the legs to the height you desire and paint or enamel the table in a color to harmonize with your furnishings. It's easy as can be.

All the equipment you'll need is a saw, some glue for repairing cane where necessary, paint and paintbrush, and a piece of plate glass for the top. The steps on this page show just how we made our old table into a modern one.

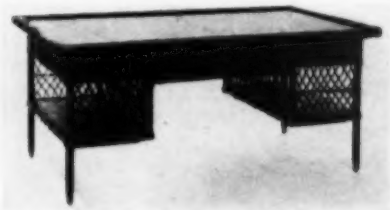
1 The old wicker-cane library table as it came from the attic. Our plan was to convert it to a coffee table. We wanted it to be high enough so we could sit comfortably on the sofa to eat leisurely suppers



2 First step was to cut down the table. We determined the height in relation to our sofa, then sawed 8½ inches from each one of the legs



3 Second, we removed the curved arches springing from the legs, all the wicker inset below the shelves, and the ragged, worn cane on the legs. To recane, we soaked the cane that had been removed in water to make it pliable and kept it wet. We coated the legs with a water-mix glue and wound the wet cane around them. Then we wound strips of cloth tightly over the cane and left it on until the glue was thoroughly dry (about 24 hours). Other worn or broken areas of the table were repaired in same way



4 In order to have a table surface that would hold a glass top in place, we raised ¼ inch the removable frame that went around the top of the table. Then we sprayed entire table with black enamel, finished it with a coat of rubbed-effect varnish in order to give it a dull, satin finish, added a plate-glass top

Photographs: Fletcher

5 Here is the "new" finished table in use. The plate-glass top gives it an easy-to-clean surface, the shelves supply space for books and plants, and its new clean-cut appearance is pleasing with modern sofa

Buying life insurance without a plan is like building a house without a blueprint. Prudential's Dollar Guide can help you build family protection fitted to your needs.

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When you feel sluggish or headachy due to the need of a laxative, take gentle, speedy Sal Hepatica.

You'll avoid "Laxative Lag"—that feeling of discomfort that continues for hours until ordinary, slow-acting laxatives bring relief. Here's how . . .

In the morning . . . take sparkling Sal Hepatica before breakfast—enjoy gentle relief usually within an hour.

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Sal Hepatica is an all-purpose, antacid laxative. Sweetens sour stomach. It is a recommended laxative by more than half the doctors interviewed in national survey.

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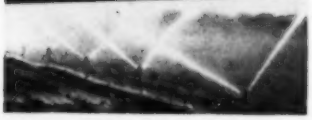

SAVE CROPS Water any field quickly at low cost with OK Champion pipe. Take water from well—lake or stream. Save crops—greatly increase yields. Get better grade products. Two men can move and re-connect ¼ mile OK Champion Pipe in 30 minutes. Quick connecting, flexible couplings. Send for FREE Circular.

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THE WILL-BURT CO.
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Answers to your questions about

packaged *and* canned food

Ever heard that it's unsafe to store food in an open can? Or wondered if you should always sift a packaged mix? You're not the only one, if the answer is yes. These questions and the others below are the ones most often asked of your grocer. Check them over and see how many you could have answered correctly.

How should I store prepared mixes? You'll find that mixes keep better if you store them on the kitchen shelf away from heat and steam. Both heat and moisture will cause a packaged mix to deteriorate. Once you do open a prepared mix, use it up as quickly as possible, especially if it contains baking powder. When moisture gets into an opened package, the baking powder starts to work and loses its leavening properties. Rewrap an opened package carefully to keep out as much moisture as possible.

Should I sift a prepared mix? You'll be safe if you follow the directions on the package. Never sift a mix that has shortening in it any more than you would sift a homemade mixture after the shortening has been added.

Can I add extra ingredients to a prepared mix? Follow the directions on the package exactly. Some mixes call for extra ingredients and some don't. But most all mixes have enough recipe variations on the package to give you the kind of product you want. Don't add basic ingredients as eggs and milk when the directions on the package do not call for them. A prepared mix has been carefully blended and extra ingredients can upset that blend. You may add flavorings such as almond and vanilla extract if you want added flavoring.

How long can I keep a packaged mix on hand? Most manufacturers of prepared mixes say their products will keep for at least a year if they are unopened and stored properly (see first question). However, it's a good idea to use them up as soon as possible and replace them with new packages.

Is it safe to leave canned goods in an opened can? The Department of Agriculture says it's absolutely safe to leave canned goods in the can they come in—if the can is refrigerated and covered. In fact, the food will keep better in a can which is sterile than in other dishes. Do be sure to cover the can with waxed paper, foil, or small bowl covers before refrigerating so the fruits and vegetables

won't shrink or dry out. Acid foods, such as pineapple and tomatoes, are apt to acquire a slightly bitter taste when they stand several days in an open can; however, they're still perfectly safe to eat. For best retention of flavor, store acid foods in covered glass jars.

Do commercially canned vegetables need further cooking? No, because they have been thoroughly cooked in the canning process. If you're serving the vegetables hot, drain off the liquid and boil it until reduced in quantity. Then add the vegetables, cooking them just long enough to heat through. This improves the flavor and helps retain the food value.

What is the best way to store canned goods? Store your unopened canned goods in a cool, dark place; a cellar, closet, or cupboard is best, away from steam pipes, stoves, damp walls, or floors. Heat will make the food deteriorate slightly. Light is apt to cause anything canned in glass to change color. Avoid freezing canned goods because it breaks down the texture of the foods.

How long will canned foods keep? Canned foods will keep indefinitely without spoiling as long as the can remains in good condition and if stored as specified in preceding paragraph.

Is a dented can a sign that the contents have spoiled? No, unless there are signs of leakage. If a can is dented, it usually means that the can has been dropped. However, if the ends of the can bulge, it generally does mean the contents of the can have spoiled. When the ends of the can bulge, throw away the contents where no human or animal can get at them.

Is rusting a sign of spoilage? No, unless the rust has penetrated the can. If the can has rusted through, immediately dispose of the contents.

Can you tell the quality of the product by the can's label? Some canners use a loose system of grading. Usually the grades are Fancy: a nearly perfect product in color and size; Choice: a good product but not perfect in appearance; and Standard: broken, imperfect fruit. However, these grades are not standard and actual quality will vary from brand to brand. Your best bet is to ask your grocer for advice on the various brands he carries. He will gladly help you find exactly what you want. **END**

Pattern Service

FOR SEWING WITH COTTON BAGS

Every time you buy products in Cotton Bags — you SAVE container costs, because the valuable sewing material can be re-used to make smart looking, money saving fashions like these!

Pattern #3550
A fancy fashion that's kitchen wise, dress-and-apron with contrast trim . . . easy to make too, with only five 100 lb. Cotton Bags!

Pattern #3626
Two more Cotton Bags, and presto — a pleated jumper for wee misses (to size 3). One 50 lb. bag for the ruffled blouse.

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Flattering to every figure — and a real dollar saver! Takes just three 100 lb. Cotton Bags!

FREE — with the compliments of your manufacturer who packs in Cotton Bags, 1952 PATTERN SERVICE for Sewing with Cotton Bags, the booklet that shows you how to make latest fashions and money-saving household items with Cotton Bags.

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Address.....
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Name of product I buy, or would prefer to buy in Cotton Bags:
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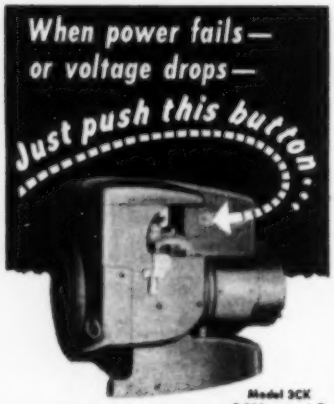

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3,000 watts, A.C.

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Signs for many uses Send for catalog FREE
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I want a full pipe—a water supply that *gushes*—not trickles.

You sure get it with Worthington's vertical turbine pumps!

And—once the pump's in the ground you can forget it—and always be sure it will deliver the water you want *when* you want it. It's protected where protection's needed—built right to give you many years of trouble-free service.

Your Worthington dealer has a comparison chart that *proves* Worthington gives you all *8* features that mean better service—while other types give you no more than *5*. Get him to show it to you.

You can get a Worthington in sizes from 6 in. up. Every size delivers maximum head per stage.

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Livestock

Creep feeding pigs on pasture

Here's some good advice for swine producers who are planning to get their spring litters out on rye pasture. Three years of tests at the Illinois Experiment Station showed that creep feeding of suckling pigs improved the production efficiency.

More creep-fed pigs reached weaning age than did those in the litters not creep-fed. Moreover, the creep-fed pigs averaged 1.6 pounds heavier at weaning age than pigs not receiving the extra feed while grazing rye pasture.

In addition, creep feeding apparently has a beneficial effect on over-all feed efficiency through the fattening period. The creep-fed pigs required an average of 128 pounds less feed to produce each 100 pounds of gain than did those not creep-fed.

For creep feeding pigs on pasture, the Illinois investigators self-fed a ration of shelled corn and a simple protein supplement.—*T. B., Maryland.*

Size makes no difference

It's just natural for farmers to want to feed lambs in uniform lots. However, tests conducted by D. S. Bell and L. A. Kauffman at the Ohio Experiment Station show this is a matter of individual taste. Lambs which vary in size and looks do just as well as a group of lambs that look alike.

A total of 240 native lambs were used in the experiment. They were graded Commercial to Good, Utility to Commercial, and Cull to Utility. Part of the lambs in each grade were fed out separately, and the rest were lumped together in one group.

All lambs were topped out and sold when they reached market weight and condition. Grade for grade, lambs made about equal gains, whether kept in lots of their own grade or all run together in the same lot. The same ration was fed to all lambs.—*D. E. G., Ohio.*

Know your interstate-shipping laws

It's becoming increasingly difficult for our animal population to move across state boundary lines without "passports." The American Foundation for Animal Health suggests that farmers make sure their livestock is healthy before attempting to ship it interstate.

Failure to get passports or clean bills of health may cost the shipper hundreds of dollars in state fines, plus delays in shipping, extra feed bills, and quarantine losses.

Most states require health certificates from a licensed veterinarian, stating that the transit animals are free from disease. Most states also require brucellosis and tuberculin tests for cattle, mallein tests for horses, and a scabies examination for sheep.

Swine cannot be shipped interstate unless properly vaccinated for hog cholera. Most states require that dogs come from a rabies-free area or undergo vaccination for rabies before they can be transported interstate.

Because animal passports are so vital in helping prevent the spread of animal diseases, Foundation authorities suggest that livestock owners make sure proper health certificates are made out and certified. A few minutes spent in getting such credentials may save expense and time.

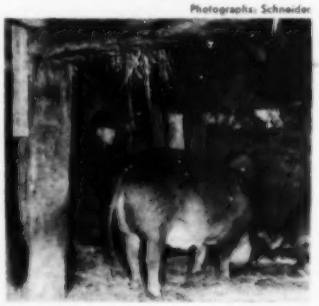
Bull transmits fast-gaining qualities

As a guide in selecting a beef bull, use weight for age as well as excellence of beef type. Recent research by the Bureau of Animal Industry, in cooperation with a number of states, has shown that these characteristics are influenced greatly by heredity. Measurements of rate of gain from weaning to 15 months of age give an accurate yardstick for estimating the animal's ability to transmit desirable growth qualities to his offspring. A more accurate selection for growth ability can be made during the postweaning period than during the suckling period.

Commercial cattlemen are asking for a factual record of performance for each

[*Turn to page 196*

Photographs: Schneider



Low-cost shelter for sows was built by Foster MacDonald, Mount Vernon, Illinois, using railroad ties (see above) for supports and poles for top. Fodder around the sides breaks wind. Cost of 18'x 30' shelter was $4 plus labor. Wire (see picture, left) holds down straw roof

NEW ANTIBIOTIC COMBINATION BRINGS DAIRYMEN MOST EFFECTIVE MASTITIS CONTROL METHOD

Three powerful drugs combined to bring you latest, most economical treatment!

OINTMENT

TRIBIOTIC*

PENICILLIN • DIHYDROSTREPTOMYCIN • BACITRACIN

(packaged in Wyeth's famous easy-to-insert one-pinch, single dose tubes)

- Penicillin, dihydrostreptomycin and bacitracin — combined in TRIBIOTIC — provide an intensified antibiotic action that is more powerful than the action of these antibiotics given singly. Not only are susceptible organisms killed more rapidly, but more different types of mastitis-causing bacteria are destroyed. Control of mastitis is surer, faster.
- TRIBIOTIC works where single antibiotics fail to get results.
- Harmless to the animal. No interruption in milking.
- Particularly effective against mixed infections.

* Each handy tube of Tribiotic Ointment contains 100,000 units penicillin, equivalent of 50 mg. dihydrostreptomycin base and 5,000 units of bacitracin.

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TRIBIOTIC OINTMENT, triple antibiotic combination, provides multiple striking power and gives wider range of effectiveness and increased action.

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Consult your Veterinarian as you would your Physician

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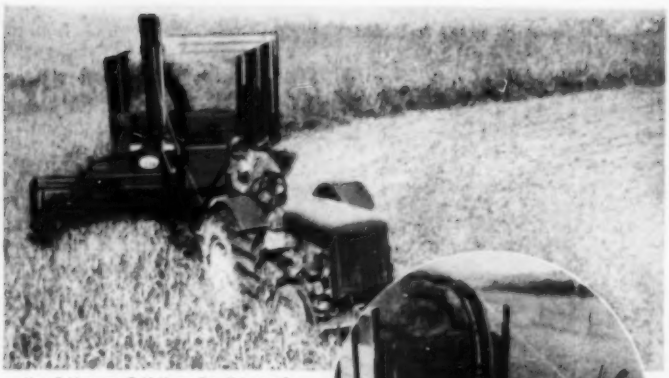

New field-proven Gehl Mower-Bar Unit cuts Soybeans, Sudan Grass, short grasses to tall Sorghum ... sowed broadcast. Clears field in one operation.

Hay Pickup Attachment for windrowed hay

BEAT THE MAN SHORTAGE AND THE WEATHER WITH

"Production-Line Farming"

The GEHL FORAGE HARVESTER brings "production-line" economy and speed to farming. With the 5-foot Mower-Bar Attachment, the Gehl mows, chops and loads **short or tall** grass silage crops, clearing the field in one operation. A quick change-over to the Hay Pickup attachment and you're ready for windrowed hay, straw or grass silage. The Row-Crop Attachment for Corn, Cane, etc., has spiral gatherers, exclusive with Gehl. **Many Gehl features have been imitated,** but this patented feature **can't be copied** ... minimizes trouble in field ... does not knock off so many ears. The powerful Gehl Blower elevates to the highest silo or mow. So, 3 or 4 men do a job that required 8 to 12 men with old methods. **No wonder the demand increases year after year for**

GEHL SINCE 1859 PRONOUNCE IT GAYLE

FORAGE HARVESTERS

There's a big difference in field choppers. The Gehl has proved its rugged, long-life dependability and better chopping ability year after year.

● It's the short, clean cutting that makes the best feed ... silage that packs well and keeps well ... The Gehl is famous for clean, fast, uniform cutting. Get the catalog that tells why!

● Unbreakable boiler-plate flywheel, best on the market ... carries either 0, 4, 8 knives, or one knife with counter-weight. The Gehl heavy, reinforced box-type frame holds chopping, blowing and feeding mechanism in proper alignment.

● Long experience as specialists in forage machinery gives the Gehl Chopper many important extra advantages. Find out why Gehl has sold more forage harvesters than any other independent manufacturer. There's nothing better than a Gehl.

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Please Mail Me Colorful Forage Harvester Catalog ☐; New Bulletin, illustrating and describing last year's grass-silage operations ☐; Free Wagon Box Plans ☐; Name of nearest dealer ☐.

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GEHL ... A GOOD NAME TO GO "BUY"

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 201. Visit store nearest you for help with decorating problems.

Relieves Constipation With Tiny Vegetable Tablet—Now Happy!

A sad case with a happy ending is the story of an Indiana woman who suffered with gastritis—spent thousands of dollars without getting relief. Then a druggist told her about Nature's Remedy, NR Tablets. From the very start she got relief.

If you are nagged by constipation or have headaches, tiredness, upset stomach as a result, by all means give Nature's Remedy, NR Tablets a thorough trial. They contain 10 laxative elements all provided by nature. That's why they work so gently, yet thoroughly. And just think, the woman mentioned above has been using them for 38 years, now takes smaller dosage than when she started. Get a 25c box of Nature's Remedy from your druggist. If it doesn't prove the best laxative you ever used, send the box back to us and we will refund your money plus postage. Nature's Remedy NR Tablets.

Livestock

[*From page 194*]

individual animal or group of bulls they buy. Because they recognize the importance of selecting stock on a more reliable basis than appearance alone, cattlemen are becoming much more critical. Breeders who record information on performance of their beef animals will no doubt find their stock in increasing demand.

Antibiotics up gains 20 percent

The addition of the antibiotics, procaine penicillin or aureomycin, increased the rate of gain by 20 percent on 156 growing-fattening pigs in 8 different trials at the Missouri Experiment Station. There was also a saving of 5 percent in the feed required per pound of gain, according to John F. Lasley, who conducted the feeding tests. The pigs were fed a corn-soybean meal ration in dry lot.

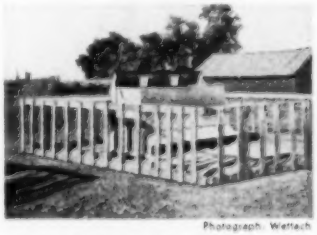
These same antibiotics were less effective when added to a corn-tankage ration for pigs in a dry lot. "In 4 experiments involving 80 pigs, the rate of gain was increased by only 6.6 percent. Too, 4.1 percent less feed was required per pound of gain," Lasley said.

When either of the above antibiotics was fed to pigs on pasture with a corn-soybean meal ration, there was a saving of 10 percent in feed but no noticeable difference in rate of gain.

In tests where streptomycin was added to a corn-soybean meal ration for pigs in dry lot, the rate of gain was increased by an average of 6 percent. Also, 7 percent less feed was required per pound of gain. —*O. B., Missouri.*

Easy-to-move creep

This large livestock creep (pictured below) was built by Clifford Idle, Johnson County, Iowa, with expansion in mind. The 4 large gates, or panels, have hinged corners. Removable pins hold the gates



Photograph: Wiettach

together. More panels can be added if a larger pen is needed. The creep can be easily dismantled for moving by pulling the pins.

Idle used 2x4s for the top and bottom rails and 1x4s for the uprights. The strap-iron hinges are bolted to the 2x4s.—*A. M. W., Iowa.*

Less trouble with pig scours

Adding aureomycin and terramycin to an excellent creep mixture for suckling pigs improved rate of growth and prevented scours following vaccination for cholera. This was noted in an experiment at the Minnesota Experiment Station.

Bacitracin, at the level fed, appeared to be ineffective in stimulating growth, and it was only partially effective in controlling scours. However, according to the researchers, the smaller initial weight of the bacitracin-fed pigs may have been a contributing factor. These

pigs ate less creep feed than other lots.

Procaine penicillin did not stimulate growth or control scours in suckling pigs. However, scours occurred in the pigs getting this antibiotic at a time when they were young and eating little creep feed.

In 2 of the trials, there was a period of scouring for several days preceding vaccination for cholera. Procaine penicillin, at the level used, did not slow down the incidence of scours. As the 2 trials were started 2 weeks apart, it appears that the scouring was associated with certain pig-development or environmental conditions.—*R. R., Minnesota.*

High beef production

Ralph Ogle, livestock farmer in Audrain County, Missouri, took top honors last year in the Missouri Beef Production Extension Project. His 16 Angus calves averaged 670 pounds at 261 days of age for an average daily gain of 2.57 pounds.

Good roughage, improved pastures, and spraying to control flies get most of the credit. Bluegrass pasture was used in the spring. Then, around June 1, the cattle were shifted to lespedeza. Red and sweet clover was used for fall pasture. The cows and calves also had run of red-clover seedings in the late summer and fall. A shot of mixed fertilizer gave the pastures an extra boost. The cattle were sprayed 4 times with DDT.

During the previous fall, the cows were pastured on a 40-acre stalk field and 20 acres of first-year sweet clover. They were wintered on baled first-year red clover, wheat straw, and silage from 4 acres of sorgo. No grain was fed.—*O. B., Missouri.*

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for good field men

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- *You are between the ages of 25 and 55, and seek a permanent sales position.*
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- *You have a farm background and will enjoy contacting farmers.*
- *You can pass a physical examination.*
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If you are interested in this kind of opportunity and can qualify, write to our closest branch office listed below. Tell in your first letter why you think you are the man for the job.

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Proved Most Effective Drug FOR PREVENTION OF COCCIDIOSIS

CHICKEN COCCIDIA	SQ	DRUG A	DRUG B	DRUG C	DRUG D	DRUG E	DRUG F	DRUG G
E. Tenella	+	+	+	✓	✓	+	✓	✓
E. Necatrix	+	✓	+	○	○	+	✓	✓
E. Acervulina	+	✓	○	○	○	○	○	○
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E. Brunetti	✓	○	○	○	○	○	○	○

+ HIGHLY EFFECTIVE ✓ SOME PROTECTION ○ INEFFECTIVE

Scientific data in the above chart—translated to practical field application—explain why Sulfaquinoxaline gives your birds the most protection against coccidiosis outbreaks. Sulfaquinoxaline guards your poultry profits best because it is the drug that:

1. Combats coccidiosis caused by the five most damaging species of coccidia in chickens . . . lowers mortality, even in multiple infections . . . may be used for *prevention* or *control.*
2. Has no adverse effect on fertility, hatchability, or egg production . . . increases thriftiness . . . protects best when you need it most, under warm, moist conditions.
3. Checks mortality in acute fowl cholera.

Safe, economical Sulfaquinoxaline is available from your feed or remedy dealer in the form of feed mixtures, premixes, solutions, tablets, or soluble powder.

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.....in Chickens.....in Turkeys.
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Keep It Healing
Keep It Milking

To maintain unrestricted milk flow and provide antiseptic protection is of first importance in the care of injured teats. Dr. Naylor's Medicated Teat Dilators are a dependable treatment for maintaining full stream milking through the teat canal in cases of Sore Teats, Scab Teats, Bruised Teats, Obstructions.

Contain Sulfathiazole

Dr. Naylor's Sulfathiazole Medicated Dilators act as an internal bandage to the teat canal. They provide gentle, non-irritating support to delicate teat canal lining and promote normal relaxation at end of teat by prolonged antiseptic contact directly at site of trouble.

EASY TO USE . . . Simply keep a Dr. Naylor Dilator in the teat between milkings until teat milks free by hand.

Large Pkg. (45 Dilators) $1.00
Trial Pkg. (16 Dilators) 50c

At drug and farm stores or by mail.

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SAVE $100.00 LIME-SEED-FERTILIZER BROADCASTER

COSTS AS LITTLE AS $66

Sturdy, low cost Broadcaster saves real money. Special hitch. No-clog agitator. Gives exact spreading – 50 lbs. to 8,000 lbs. per acre. Iron clad guarantee. 12,000 working in 28 states.

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Successful Farming's practical up-to-the-minute information will help you and your family enjoy better farm living.

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THE **HUMBOLDT LOADER**

The Lowest Priced QUALITY LOADER on the Market

A NATIONWIDE FAVORITE

The Humboldt can't be beat for rugged dependability, trouble-free operation and labor saving economy.

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The HUMBOLDT LOADER is EASY to INSTALL . . . EASY to OPERATE. Really puts the loads up, out and over. Has powerful 1w a hydraulic high pressure cylinders. No cables, no sideswing, nothing above the tractor. Guaranteed workmanship and materials. See your dealer or write for new FREE literature and low prices.

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Dairy

Grass helps control bloat

Sufficient grass, especially tall fescue, in combination with Ladino clover may aid in reducing bloat among cattle, according to experiments at the Mississippi Delta Branch Experiment Station. However, the best preventive is to take animals which bloat readily out of pastures containing a high percentage of clover.

At least 50 percent by weight of grass is necessary to give reasonable protection in a grass-clover pasture, says J. Ross Fleetwood, field-crops extension specialist at the Missouri Experiment Station. A South Carolina experiment also found that salt, abundantly distributed in numerous places in the pasture, leads to greater salt consumption and lessens danger of bloat.

Ryegrass apparently is not satisfactory, as the clover will continue to cause bloat after the grass stops growing in the spring. Even with fescue, care must be taken not to overgraze early in the spring, or the percentage of the grass in the pasture will be reduced. Use of nitrogen fertilizer helps maintain a satisfactory balance of grass and clover.

The Mississippi experiments also showed that most control practices were of little value and are expensive. Hay and grain feeding were partly effective but not practical. Several mineral mixtures were tested but found to be without value.

Calves do better on pasture

Put those dairy-heifer calves out on pasture and they'll grow faster and be healthier and thriftier than if you leave them in the pen at the barn.

That's the opinion of dairymen at the Minnesota Experiment Station who have tried the outdoor plan the past 2 summers. The spring and summer calves are kept on whole milk for 30 days. Then, they are switched to skim milk and grain. In another 10 days, they are placed on a small brome-alfalfa pasture of their own.

The calves relish the grass. In addition to the grass, they get 6 pounds of dry skim milk, mixed with water, twice daily. The same ground-grain and protein mixture which the cow herd receives is fed to the calves. Dry hay is kept in a rack. They consume a little grain and hay, but not much.

An inexpensive 10'x20' shelter (see picture below), open on all sides, was built for the calves on one side of the pasture. A rack for the dry hay is located in one end of the shelter; a trough for the grain ration is placed along one side. The calves drink their skim milk from pails. The milk powder and water are mixed in front of the shelter. The scale hanging from the rafter is used to weigh the amounts.

The calves soon learn to come to the shelter to get their milk. The calves are tied to the front of shelter using neck straps and snap chains.

Between feedings, the shelter provides shade and storm protection. When the calves are 6 months old, they are turned in with the older heifers.—*W. J. H., Minnesota.*

Fast, safe dehorning

Electric dehorning takes only a few minutes and calves suffer no loss of blood or shock, according to C. K. Kline of the Ohio Experiment Station. Kline says electric dehorning can be done any time of year without danger of colds or screw-worm attack. Calves do not have to be isolated after treatment.

The best time to dehorn is when the calves are 2 to 4 weeks old. Young calves require less time to dehorn.

Several irons are on the market. An iron should heat up to about 1,000 degrees. Apply the hot iron to the base of the horn for about 10 seconds or until the area turns a dark copper color.

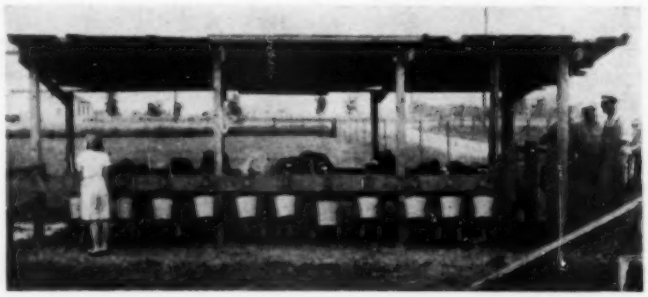
Maybe it's vibriosis

Brucellosis gets most of the blame for abortions, but there are other causes, too. A common one is vibriosis—a disease which infects dairy cows and sheep.

Not too much is known about vibriosis, says Joseph Simon, veterinarian at the Wisconsin Experiment Station. However, here are some recommendations for diagnosing the disease and handling infected cows.

In a band of pregnant ewes, abortion may cause half the ewes to lose their lambs. However, this is not the case in dairy herds. An occasional cow in a particular herd may abort from vibriosis.

The only reliable method for diagnosing the disease is to find the germs. To do that, a veterinarian tests samples from the stomachs of aborted calves. Simon points out that a blood test for vibriosis in cattle has little value. Uninfected heifers may show a positive blood test. And the results of a test vary greatly, depending on the strain of disease present. However, the blood test may prove successful with



further refinement in technique. The source of the disease is not known.

If one of your cows aborts, Simon suggests that you first check for brucellosis or Bang's disease. Then, if the animal is negative to the Bang's test and trichomoniasis, the veterinarian can check for vibriosis. Animals suspected of aborting from vibriosis should be given a 60-to-90-day rest period before breeding again. In any case, an aborting animal should be isolated and the place of abortion disinfected.

Heifers like minerals free-choice

Dairy heifers may prefer their mineral supplements served cafeteria style—especially if the kind and quality of hay they receive varies. Heifers in two tests at the Ohio Experiment Station varied in the amount of mineral supplement they ate when different types and qualities of hay were fed.

In one test, 18 Jersey and Holstein heifers had access to steamed bonemeal and salt while they were eating 3 different hay rations. The 3 hays fed were: mature timothy; mixed timothy, alfalfa, and clover; and second-cutting alfalfa. A grain mixture and corn silage also were fed.

In another test, the heifers had free-choice of salt, sodium phosphate, and oystershell flour. They received mature timothy and mixed hay at two different periods. The heifers consumed more calcium, sodium, and phosphorus when they had free-choice of salt, sodium phosphate, and oystershell flour. When minerals are fed free-choice, the heifers can take what they want in the amount they desire. They will not have to eat one mineral to get another.

Raise heifers on 500 pounds grain

Dairy heifers can be raised satisfactorily from birth to 2 years of age with as little as 500 pounds of grain—provided they are fed all the high-quality alfalfa hay they can eat. This was shown in investigations completed by the Bureau of Dairy Industry last year.

In the experiments, heifers fed about 500 pounds of grain the first 9 months—and no grain thereafter—made as good growth as heifers fed a total of 2,250 pounds of grain in 2 years.

Both groups had been fed colostrum milk for 3 days after birth, then switched to whole milk (or skim milk fortified with vitamin A) to 60 or 70 days. Hay-and-grain feeding was started at 10 days of age. Grain gradually was increased to a maximum of 3½ pounds a day at 5 months of age, then decreased gradually and discontinued at 9 months for the limited-grain group. The other group was fed at the average daily rate of 3½ pounds for 2 years. High-quality alfalfa hay was fed to both groups throughout the 2-year period.

In a related experiment, it was found that alfalfa hay could be replaced by a mixture of Ladino clover and bromegrass hay, or a mixture of Ladino clover and orchard-grass hay, when corn silage made up the rest of the roughage ration. Heifers receiving alfalfa hay and corn silage weighed 111 percent of normal at 2 years of age. Those receiving corn silage and the Ladino clover-grass mixtures weighed 115 percent of normal.

The bureau scientists emphasize that these results with limited-grain rations were possible because of the high-quality forage fed. **END**

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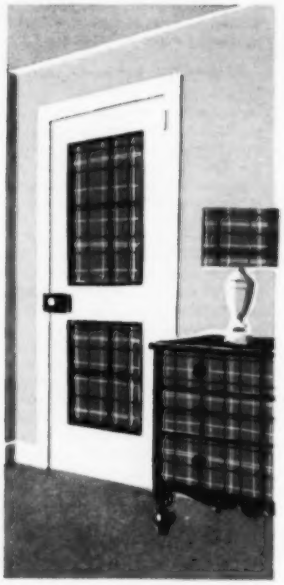
For the teen-ager . . .

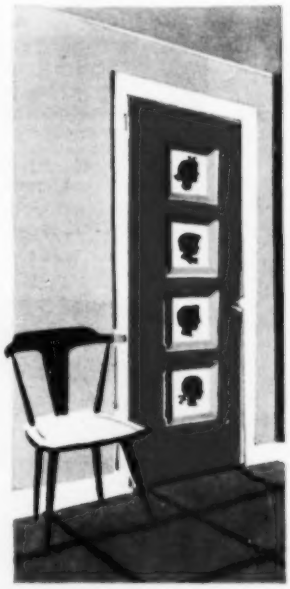
decorated doors

By Elaine Cannon

Memorable keepsakes can be displayed on a bulletin board made by cutting composition board to fit door



Don't limit wallpaper to use on walls. Use it as trim on the panels of closet doors; the room will look larger



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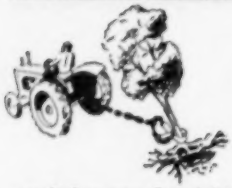

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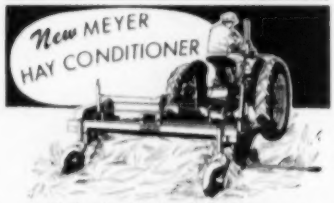

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Wind erosion [*From page 30*]

rolling when the surface wind gets up to about 12-14 mph at 1-foot height.

Severe wind erosion, of course, happens only when winds are much higher. In tests, fields containing over 50 percent soil particles of less than this critical size eroded several times as much as fields with 20 percent particles this size. This is the reason why the dust mulch—at one time advocated to save moisture—actually laid the land wide open to erosion.

The particles move three ways—rolling on the ground (called "surface creep"), completely airborne ("deflation"), or *bumping* along the ground ("saltation").

Width of the area across which the particles move also enters in—as long as particles are moving, they are grinding away on the clods which will ultimately project high enough to stop the movement. That's why one field in an area can damage other land which happens to be in the direction the wind is blowing. That's why a blowout can spread across a county.

The battle isn't won when soil stops moving. Do something to reduce the clods or residues, increase the speed of the wind, change the direction, and it starts in again. It's often the third or fourth blow before much soil moves.

The two wind-erosion specialists found out some interesting things when they studied the effect of crops and methods of tillage. Losses were greater under a 2-year wheat-fallow or sorghum-fallow rotation than if the 3-year rotation was a wheat-sorghum-fallow.

Wheat ground with a little over a ton of stubble on the surface was much less erodible than ground where there was less cover. Drilling across the path of the prevailing winds saved more soil than drilling with the wind.

With the wind tunnel set up at Lincoln, Nebraska, subsurface tillage in the fall proved much more resistant to erosion than fall-plowed ground—about 215 times to be exact.

Zingg's and Chepil's work has further proved that if you provide enough tough clods or mulch cover, these particles just can't get up enough steam to go anywhere. Every clod or straw acts like a miniature snow fence with moving particles soon coming to rest on the lee side of it. But the clods must be tough, or there must be lots of residues. An expanse of loose dust with a few weak lumps of soil will go with the first gale.

Winter breaks down clods—that's why you need crop residues to take over.

Out at Greeley, Kansas, Zingg and Chepil found an eye opener.

The soil there is silt loam on the surface with more clay in the subsoil. Up until 1941, 60 percent of the land was in native sod. Progressive breaking up of this grassland began in 1942 and was nearly completed in 1950. Here was a chance to study the degree of erosion taking place from that area. Drifting had occurred in the fall of 1948 and in the springs of 1949 and 1950.

Three groups of fields were selected for tests—fields broken before 1936, fields broken between 1939 and 1944, and those broken after 1946. All were in the same area, and soil and slope were nearly alike. Here is what Zingg and Chepil found:

1. Nine inches of topsoil have been lost in 20 years.

2. The recently broken sods are the most erodible, but they can be held by the crop residues produced in good years.

3. Under the present tillage practices, yields decline sharply after breaking, resulting in fewer crop residues. The result is a highly erodible soil.

In March, 1950, several dust storms near McPherson and Salina, Kansas, had everyone worried about a repeat performance of the dust storms of the Thirties. The wind tunnel was packed up and taken there to find out why some fields took to the air and others stayed put.

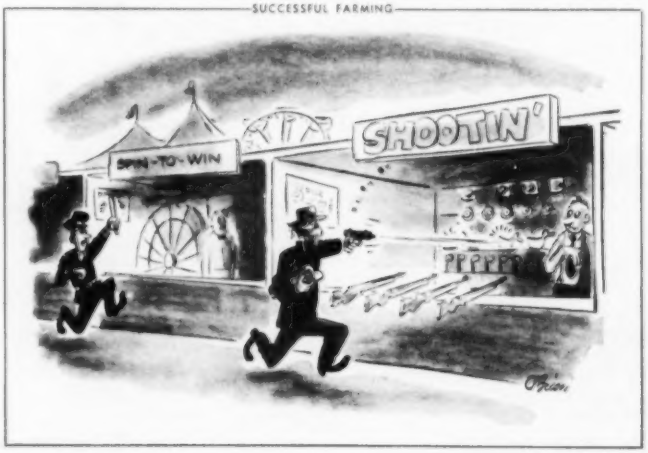
Fields which eroded most were those which had been tilled in the fall of 1949 but were not seeded as intended. Winter action followed by spring tillage for oats left these fields wide open to the wind. It was found that these fields lost over $\frac{3}{4}$ of an inch of topsoil—$\frac{3}{4}$ of that amount was in drifts near the fields—$\frac{1}{4}$ was gone.

Another group of fields showing drifting were those where wheat failed to make a good start the fall before.

The fields which had been seeded early

[*Turn to page 204*

SUCCESSFUL FARMING



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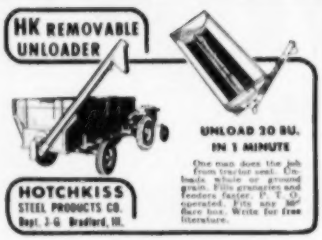

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Wind erosion

[*From page 202*]

and where the wheat had had a chance for a good growth by freeze-up suffered the least.

Soils tend to get more sandy as erosion progresses. This is especially true of those high in sand to begin with.

The removal of the finer particles, including organic matter, from some soils is one of the most serious results of wind erosion.

Leaving no stones unturned, Professor Zingg made a study of occurrence of winds on the High Plains.

Winds which bring about the dust storms vary from year to year. Zingg says, "In the High Plains, the winds come in the form of storms lasting from 1 to 3 days. Most years these storms occur in April—usually 2 or 3 during the month. However, in 1935 about a dozen came one after another.

"Studies of weather records show that every other year we can expect a wind of 40 miles per hour lasting 3 hours.

"Actually gustiness is more important than the average speed of the wind—it governs how much damage a wind will do. Some winds seem to be a steady flow of air, while others, perhaps with the same *average* velocity, will fluctuate greatly. Gusts may be double the average velocity of a particular storm and greatly increase the loss of soil."

Zingg and Chepil, in the short time they have been working, have backed up with sound scientific facts the practices currently being recommended.

These soil-holding methods are the result of years of trials at the experiment fields of the Great Plains states agricultural colleges. Much is still to be learned, and the work of the two Kansas scientists will speed the quest.

Here, briefly, are the keys to preventing the removal of your soil by wind. Included are the ideas of agronomists and farmers in the fallow-wheat area.

The surface mulch is the best practical means of preventing wind erosion. An ideal mulch has these characteristics:

1. Fairly heavy crop residue.
2. Even distribution of this material.
3. Residue cut up into long pieces.
4. Pieces anchored in the soil to prevent their blowing out.

Use of plows and frequent one-wayings do just the opposite. Repeated working of the soil causes breaking up, burial, and decay of the residues, and dust particles are produced in cultivation. There is a long period in which wind has a chance to get at the soil.

The object, then, is to produce a maximum of residue and to maintain it on the surface, yet work the ground and kill the weeds until the new wheat crop takes over. In the case of a failure of that crop, a good mulch will still provide protection until you have a wheat crop or plant something like sorghum, which will produce a residue.

Crop residues turned into a surface mulch must be the wheat farmer's most jealously guarded possession.

Following are the best ways to build and hold a wind-stopping mulch.

If possible, leave the wheat stubble till spring before the first operation—that way you get the best protection through one windy season.

Adjust your one-way disc so as to cut shallow and catch the stubble on the surface. You can do it that way and still kill the weeds and volunteer wheat. Later, use either a rod weeder or some machine with sweeps which will kill the weeds but won't bury too much mulch.

Farther south, on the high plains of Texas, *stubble mulching* has given 13 percent more wheat after fallow. Here the first operation may come soon after harvest, using a subsurface tiller with sweeps. A rod weeder and field-cultivator type of machine should then be used during the following operations. This system hasn't worked too well farther north without adding nitrogen fertilizer.

The subtilling system has these advantages: It catches water. This is important where half the year's rainfall may come overnight. It reduces evaporation from the surface. Admittedly, plowing and one-waying do a good job of controlling weeds, but subtilling properly done gets the weeds, too.

Success in using the sweep subtiller depends a lot on your machine. Get one that you can operate at a uniform depth and that has strength and weight enough to operate in hard soil. Trash cutters are a necessity. The first time through stubble, the subtiller takes about as much power as a one-way disc.

Surface mulches present a problem when drilling the wheat. You want a clear furrow down to moist soil with as little straw as possible falling back into the furrow. The deep-furrow drill is recommended, although new types are being developed. One, called a "blade drill," runs under the mulch, doing a good job of weeding at the same time.

Besides mulch there are other practices which can be brought into play on the wind. Wind stripping is widely used. By running alternate fallow and wheat in strips across the path of the prevailing wind, there is almost sure to be stubble to catch the particles which start to move.

Today, where the wheat crop fails, we are less at the mercy of the winds and the creditors. New combine sorghum can be planted in June and usually will make a crop. Even if it doesn't produce much grain, it'll make some protection for the ground.

> **A boy becomes an adult three years before his parents think he does—and about two years after he thinks he does.** —*General Lewis Hershey*

Wind erosion happened this past winter on overgrazed range and cotton land. The same rule applies there as for wheat. *There has to be some cover.* New grasses look extremely promising both for grazing and holding down these exposed knolls and sand spots where wind erosion often gets its start. Crested and intermediate wheatgrass, sand lovegrass, and bromegrass can be used.

Erosion, at its worst, brings out the last resort—emergency tillage. The theory is that clods and ridges will catch the moving soil. It works best when the subsoil is slightly moist or is composed of reasonably tough clods. Too often, repeated tillage is necessary in a prolonged dry spell and there are no longer any clods to bring to the surface. END

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Veterinary

Choice alfalfa caused scours

A recent Ohio report indicates that third-crop alfalfa makes poor calf feed. A carefully checked experiment showed that 80 percent of the calves getting third-crop alfalfa developed scours within a short time. By contrast, scouring occurred in less than 5 percent of the calves fed first- and second-cutting alfalfa. As a result, owners will probably have better luck with their calves if they feed them on first- or second-crop alfalfa.

Don't fool with mastitis

Mastitis is the No. 1 disease problem on many dairy farms. The picture below shows a cow with a case of chronic mastitis in the rear quarter. Such animals are always dangerous spreaders of the disease, even though the milk looks good in the strip cup. Diseased udders often harbor various kinds of germs for long

periods of time. There is little evidence of infection other than a "light" quarter.

Many of these germs are given off with milk, often a source of infection for clean cows. Therefore, it's a good idea to keep infected animals at the end of the milking line where they can be milked last. Little can be done for quarters like the one shown here. The milk-producing cells have been replaced by scar tissue which can never secrete milk again. If such cows are kept, be careful how you handle them.

Maybe it isn't foot rot

Recently we visited a dairy farm where a great many cows were lame and suffering from sore feet. The owner was afraid that foot rot was breaking out on a herd scale. However, the trouble was due to something else.

For some time he had been sprinkling acid phosphate in the gutters so that it could be hauled out and spread with the manure. This was a laborsaving idea, all right, but it caused severe burns on the cows' feet. All of which is a reminder that acid phosphate is "hot" and has to be handled with care.

Watch those rations!

We recently saw a dairy cow that evidently had broken a hind leg while standing still in the barn. Anyway, she was stanchioned for milking at the time, and had suffered no injury of any kind to account for the break. A review of the ration brought out an explanation.

All winter long the animal had been fed on marsh hay and oat straw grown on poor soil. No grain was fed. Then, she had been turned out early on scanty pasture.

The cow was milking fairly well for the chance she had, making the situation even worse. With little calcium and phosphorus provided by the feed as replacements, minerals were drawn from the bones until the one in the leg was no longer strong enough to support its share of the cow's weight.

Those yellow calves

Ever wonder why calves are sometimes born covered with a yellow slime? Well, it's probably because they've had the diarrhea before they were born and were covered with their own manure. Such a symptom is a certain sign of infection in the cow, usually some contagious disease such as Bang's, vibriosis, or trichomoniasis.

These diseases often exist even though the calves are carried full term. The infection in the cow is to blame for the diarrhea. So you'd better suspect something is wrong with cows which give birth to such calves.

Marshy pasture caused diarrhea

Not long ago we visited a farm where several yearling calves had died with a bloody diarrhea. The animals had been running in a marshy pasture and those still alive were thin and weak, potbellied, and sunken-eyed.

In this case, the cause of the trouble was a heavy infestation with intestinal parasites known as coccidia. The first step in treatment was to get the calves out of the marshy pasture so they wouldn't be continually reinfecting themselves by eating contaminated feed and water.

Sucking caused blind quarter

An owner recently complained that one of his first-calf heifers had freshened with a "blind" quarter. In addition, the quarter was badly swollen as though infected. This farmer didn't understand how mastitis could affect an animal which had never given milk. However, this sort of trouble is fairly common following injuries to the udders of heifers.

This trouble often starts when milk-fed calves are allowed to suck each other. Chewing on the tiny teats and udders frequently causes bruises. This results in the tissues' growing together, a condition that probably won't be noticed until the heifers freshen a couple of years later. You can prevent this trouble by tying your calves at feeding time so they can't suck each other for a half hour after feeding time.

Pasture flavors in milk

Remember that "grassy" taste in the milk when the cows went out to pasture last spring? Or was it garlic or wild onions or something else which caused trouble? In any event, you'll probably want to prevent it this year. Unfortunately, the only sure-fire way of doing it is to keep the cows off pasture, and this isn't too practical a procedure.

However, you still have a means of helping considerably to keep your milk smelling and tasting the way it should. All you have to do is bring the cows home at least two hours before milking time. See if it doesn't work as well for you as it has for thousands of other dairymen.

Colic symptoms misleading

The other day an owner reported that one of his steers had overeaten and was sick with colic. His belief was natural, for the animal fidgeted, occasionally kicked at its belly, and was constantly getting up and lying down as though in pain.

A close examination showed that the trouble wasn't colic. Rather, the animal was suffering from urinary calculi, better known as stone in the bladder. A large number of these stones had collected at one point in the urethra, preventing the passage of urine from the bladder. Affected animals should either be butchered or operated on at once to remove the stones before the bladder ruptures and ruins the carcass for meat.

What's the trouble here?

The cow pictured below showed a soft swelling in the lower part of her flank. The swelling gradually increased until it reached the stage shown in the picture. The animal wasn't sick and she ate and acted in a normal manner. However, she was stiff and awkward in her movements because of unequal weight distribution.

A swelling of this type in such a location usually indicates one of three things. Can you name the trouble?

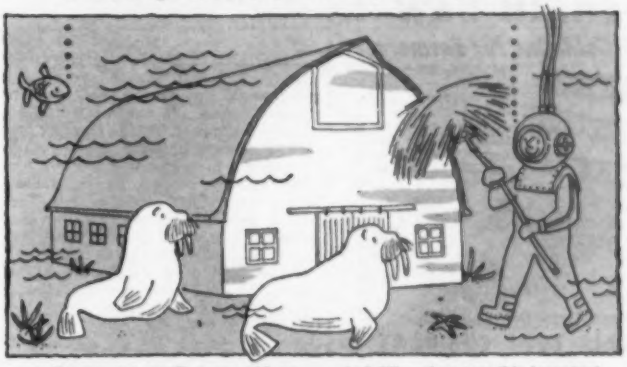
1. Bruising, followed by infection, resulting in the formation of a pus-filled abscess.
2. The breaking of one or more blood vessels through an injury, allowing blood to escape and accumulate under the skin.
3. An opening in the flank muscles allowing part of the intestines to come through, forming what is commonly known as a rupture.

In this case, the swelling was a rupture believed caused by an injury received when the animal was jammed through a narrow doorway. A condition of this kind can be corrected by surgery, but stitches tear out so frequently that it is usually more practical to butcher the animal or sell it for beef. The meat is not affected by an uncomplicated rupture.

Photographs: Bailey

What caused swelling on the lower flank?

What! Barns for Sea Cows?



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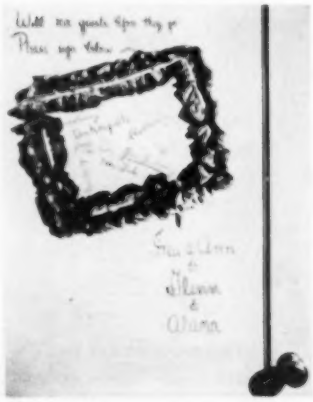

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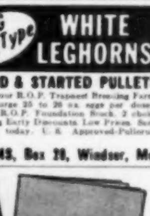

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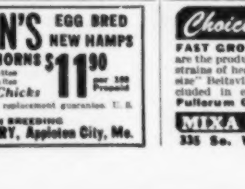

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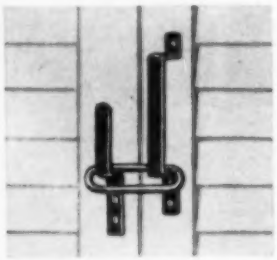
All around the farm

A page written by our readers

In removing my car battery from the carrier, I tapped too hard on the cable connector and in so doing cracked the battery case. The crack was about 5" long and the acid started leaking. I removed the battery and tipped it onto one corner to keep the acid from running out. I then took my small electric soldering iron, and, with the hot tip, melted and dug a groove about 3/32" deep the full length of the crack. Then, with the heated soldering iron, I melted a bit of hard sealing wax of the kind used to seal letters and filled the groove. It appears to hold perfectly and has saved me the price of a new case or new battery.—*A. H., South Dakota.*

Here is a gate latch that has baffled the best efforts of a persistent gate-opening animal. The only moving part is made by bending and welding a link with a 1½" radius at the ends. The latch pin and the handle are forged from ¼"x1¼" bar iron. The link is



slipped over the handle and the handle is attached to the gate. The latch pin is used as shown. The effectiveness of this easy-to-make gate latch lies in the fact that the link has to be drawn outward and upward in the same motion to get it above the offset bend in the latch.—*H. L., Nebraska.*

An economical improvement over a string for marking out garden rows is a tightly stretched wire. I use discarded baling wire straightened and spliced together. I stretch the wire between two planter stakes. These planter stakes are easily set, and the wire is not blown about by the wind. The wire makes it easy to get rows straight.—*Mrs. H. R. T., Illinois.*

I have made a handy fence tool by welding a spur onto an ordinary wrecking bar, as shown. The spur is set at the heel of the curve. When the claw is engaged on barbed or other wire, and the bar is carried around the post, the spur holds the bar from slipping and the wire is drawn tight.—*S. G., Iowa.*

When roof boards are spaced some distance apart, you sometimes miss the roof board when driving roofing nails through corrugated roofing. To avoid this, I line up each piece of corrugated roofing alongside the previously applied section, and in the same relative position over the roof boards that it will be in when nailed. With roof boards visible on both sides of the roof section, I use a wax crayon to mark nailing points.—*F. R. B., Wisconsin.*

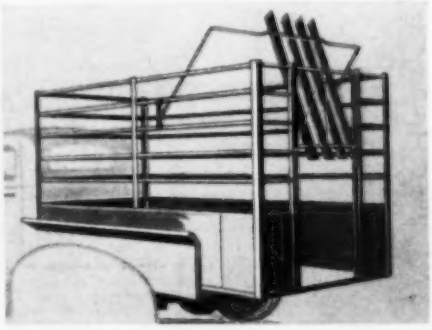
Most gardeners are opposed to using poisoned bran for cutworm control because of the danger to birds and animals. However, a safety trick is to place the poisoned bran under orange and grapefruit halves saved from the breakfast table. Cutworms and slugs like citrus fruit and will crawl under these shells. The hollow halves of the fruit make safe protectors for the bait, as neither birds nor animals care for them.—*J. K., Ohio.*

My pickup-truck stock rack and endgate is easy to build. The major advantages are the great sturdiness of the unit, and the ease with which the endgate is raised and lowered. You don't have to loosen bolts, nuts, or chains. The use of scrap materials and the omission of welded joints held the cost low. The drawing shows how to build the rack and endgate.—*A. B., Kansas.*

I have made a handy welding table out of two discarded 18" discs and two lengths of pipe as shown. To one disc I welded a 1¼" pipe about 2' long. To the other disc I welded a 2' length of 1" pipe that will slide freely in the first pipe. I drilled a hole near the top of the 1¼" pipe and welded a ½" burr over the hole. With a ½" bolt 2 or 3 inches long, and the crossbar welded to the bolt head, I can clamp the stand at any point desired.—*R. L. W., Kansas.*

In front of any unsightly places on our farm, we stretch a fence of chicken wire, using a post at each end. Then we plant some morning-glory seed. The vines will climb the fence and serve as an attractive screen to hide unsightly places.—*Mrs. R. S., Kansas.*

When stored fertilizer has hardened in the bags, I dampen the bags with a little water a few hours before I am ready to use the fertilizer. Then I cover them with a tarpaulin or canvas. After a few hours, the fertilizer softens so it can be used. I have followed this practice with excellent success for several years. There may be some fertilizers that will not respond to this treatment. However, I find the method much more satisfactory than trying to run the chunks of hardened fertilizer through a grinder or hammer mill.—*E. L. M., Michigan.*



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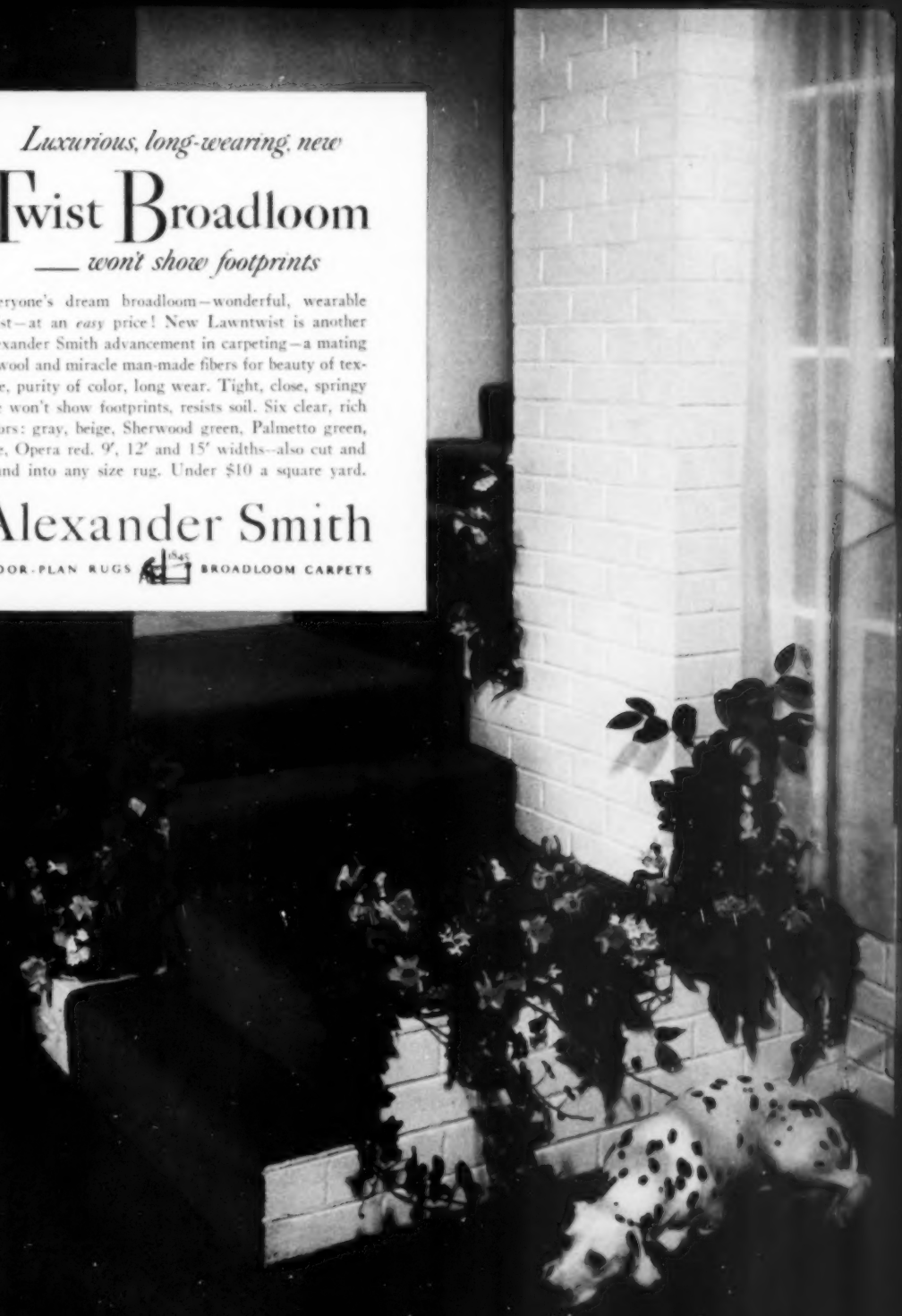

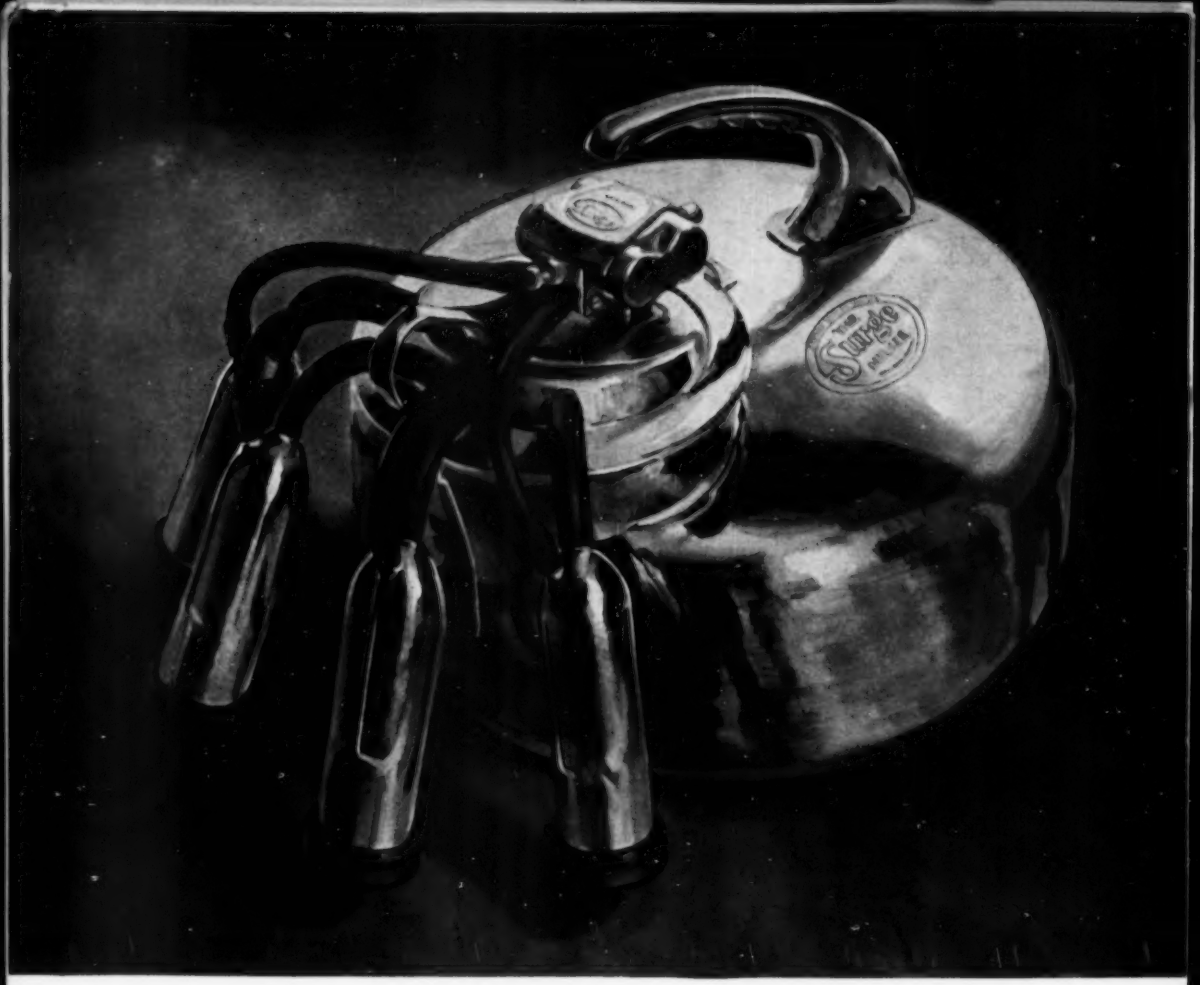

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